



०२/२/१९८६

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० ५] नई दिल्ली, सनिवार, फरवरी १, १९८६ (माघ १२, १९०७)

No. 5] NEW DELHI, SATURDAY, FEBRUARY 1, 1986 (MAGHA 12, 1907)

इस भाग में भिन्न पृष्ठ संख्या वाली जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

*[Separate paging is given to this Part in order that it may be filed as a separate compilation]*

### भाग III—खण्ड २

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE PATENTS AND DESIGNS

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todi Estates, III Floor,  
Lower Parel (West),  
Bombay-400013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office, (Head Office),  
214, Acharya Jagadish Bose Road,  
Calcutta-700 017.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

*Fees :—*The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

The following holidays will be observed by the Patent Office Calcutta during the calendar year 1986.

Sl. No.	Holidays & connected Festivals	Date	Days of the week
1.	Republic Day	January 26	Sunday
2.	Sripanchami / Basant Panchami	February 13	Thursday
3.	Holi	March 26	Wednesday
4.	Good Friday	March 28	Friday
5.	Mahabir Jayanti	April 22	Tuesday
6.	Buddha Purnima	May 23	Friday
7.	Idu'l Fitr***	June 09	Monday
8.	Independence Day	August 15	Friday
9.	Idu'z Zuha (Bakrid)***	August 17	Sunday
10.	Muharram***	September 15	Monday
11.	Mahatma Gandhi's Birthday	October 02	Thursday
12.	Addl. Day for Dussehra (Maha Ashtami)	October 10	Friday
13.	Dussehra (Vijaya Dushami)	October 12	Sunday
14.	Diwali (Dipavali)	November 01	Saturday
15.	Guru Nanak's Birthday	November 16	Sunday
16.	Christmas Day	December 25	Thursday

\*\*\*Subject to change depending on appearance of Moon.

M. C. SARKAR,  
Joint Controller of Patents & Designs.

APPLICATION FOR PATENT FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-17

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act

24th December, 1985

926/Cal/85. New Central Jute Mills Co. Ltd. Improved process for the simultaneous manufacture of sodium carbonate and ammonium chloride.

927/Cal/85. Isover Saint Gobain. Improvements relating to the manufacture of mineral fibres.

928/Cal/85. Trade & Industry Private Limited. An improved C.T.C. machine.

26th December, 1985

929/Cal/85. Du Pont Canada Inc. Reduction of isomerization in solution process for polymerization of Alpha-Olefins. (25th January, 1985) United Kingdom.

930/Cal/85. Du Pont Canada Inc. Deactivation of catalyst in solution process for polymerization of Alpha-Olefins. (28th January, 1985) United Kingdom.

931/Cal/85. Du Pont Canada Inc. Reduction of isomerization in solution process for polymerization of Alpha-Olefins. (28th January, 1985) United Kingdom.

27th December, 1985

932/Cal/85. Franz Plasser Bahnbaumaschinen-Industriege-sellschaft M.B.H. Tamping unit for track tamping machines.

933/Cal/85. Detroit Edge Tool Company. Machine slide bearing assembly.

934/Cal/85. General Electric Company. Insulated armature coil for dynamoelectric machine.

935/Cal/85. Mr. Pravat Kumar Mukherji. A process of manufacture of Laminating particle board, paper board and resin sheets with special absorbent and Decorating paper impregnating with short cycle melamine resin with special hardner.

30th December, 1985

936/Cal/85. Siemens Aktiengesellschaft. A contact carrier for keyboards.

937/Cal/85. Iorwerth Thomas. Gas Generator. (3rd January, 1985) United Kingdom.

31st December, 1985

938/Cal/85. Bidhan Chandra Ghosh. New Device for driving Bicycles.

939/Cal/85. Merck Patent Gesellschaft Mit Beschränkter Haftung. Optical Film.

940/Cal/85. Mezhotraslevoi Golovnoi Konstruktorskogo Tekhnologicheskogo Institutu Tekhnologicheskoi Osnostki (MGKTI 'tekhnosnastki'). Versatile knockdown Fixture.

941/Cal/85. Gruzinsky Nauchno-Issledovatel'sky Institut Textilnoi Promyshlennosti. Method for imparting suppleness to natural silk fabrics.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5

9th December, 1985

1037/Del/85. Colgate Palmolive Company. "Collapsible container made from ethylene propylene copolymer".

10th December, 1985

1038/Del/85. Sushil Kumar Wadhwa, "Cast aluminium objects with stainless steel lining".

1039/Del/85. Gopi Krishan Kabra, "A flat iron".

1040/Del/85. Dewan Kraft Systems Pvt. Ltd., "A process for the treatment of an effluent to paper mills".

1041/Del/85. Stein Industrie, "A protective device for heat exchangers placed in a duct for smoke filled with fine particles of ash".

1042/Del/85. Clouth Gummiverke Aktiengesellschaft, "Mat of resilient material".

1043/Del/85. Miner Enterprises, Inc., "Draft gear for a railroad car coupler system".

1044/Del/85. Johnson Matthey Public Limited Company, "Catchment packs". (Convention date 12th December, 1934) (U.K.).

1045/Del/85. Agrichema Material flusstechnik GmbH., "Discharge aid for poorly flowing bulk materials".

1046/Del/85. ICI Australia Ltd., "Gas bubble sensitized explosive compositions". (Convention date 11th December, 84) (Australia).

11th December, 1985

1047/Del/85. The Warner & Swasey Co., "A bridge type coordinate measuring machine".

1048/Del/85. The B. F. Goodrich Co., "Improved vinyl dispersion resins".

1049/Del/85. Ruhrchemie Aktiengesellschaft, "Use of ethylene copolymerisates as crude oil additives".

Applications for Patents filed in the Patent Office Branch At Todi Estates, IIIrd Floor, Sun Mill Compound, Lower Parel (West) Bombay-13.

1	2	3	4
2-12-1985			
320/BOM/85	K.R. Dholaria		A safety device for boilers.
321/BOM/85	C.J. Industries		A work-building tile for use as a display board or a panel.
322/BOM/85	Ulhas Ramchandra Marathe.		An electro-mechanical cheese winder for use in textile industry.
5-12-1985			
323/BOM/85	Jagdish Gajjar		Method for improving message reception from multiple sources.
324/BOM/85	M.A. Patel, R.A. Patel, P.M. Patel & S.S. Patel.		Victor automatic pirn winding machine with governing system.
325/BOM/85	Do.		Drawers type taper magazine system in weft pirn winding machine.
6-12-1985			
326/BOM/85	M. Desai, A. Desai & A. Shah		A jet pump that operates without electric or fuel power.
327/BOM/85	M. K. Mehta		Improvements in or relating to chemical dehumidifier.
328/BOM/85	Jyoti Limited		Water jacketed induction motor.
329/BOM/85	Do.		Bodyless induction motor.
9-12-1985			

12th December, 1985

1050/Del/85. Council of Scientific & Industrial Research, "An improved method for the preparation of 3-ethyl-8-methyl 1, 3, 8-triazabicyclo (4, 4, 0) decan-2-one (Centperazine)".

1051/Del/85. Council of Scientific and Industrial Research, "Process for the preparation of novel geranyl based diethers useful as insect control agents".

1052/Del/85. Council of Scientific and Industrial Research, "A process for the preparation of a novel non-steroidal anti-inflammatory, analgesic, anti-pyretic and tranquilisedative drug from Maesa chisia D. Don var. angustifolia Hook F. and Th. plant-leaves".

1053/Del/85. Council of Scientific and Industrial Research, "Process for the preparation of novel geranyl based diethers useful as insect control agents".

1054/Del/85. Council of Scientific and Industrial Research, "An improved dual fuel injector for gas turbine engines".

1055/Del/85. Council of Scientific and Industrial Research, "A method of cooling a device such as turbine blades or a cylinder and a device therefor".

1056/Del/85. Energy Conversion Devices, Inc., "A system for the continuous production of semiconductor devices". [Divisional date 5th March, 1982].

1057/Del/85. Rockwell International Corporation, "Brake support assembly".

13th December, 1985

1058/Del/85. Stevens & Bullivant Limited, "Manufacture of tubular components". (Convention date 12th January, 1985) (U.K.).

1	2	3	4
10-12-1985			
330/BOM/85	S.K. Iyengar		An apparatus and method of testing the presence of suspended free water (in micro quantities) in aviation fuels for flight safety and aircraft maintenance.
331/BOM/85	J.W. Hendry		Process and apparatus for injection moulding and mouldings produced thereby.
332/BOM/85	Manoj Khare		Transistorised metering fault sensor adopting the principle of wave shaping and phase comparision between voltage and current for detecting any faulty condition of metering circuitry.
333/BOM/85	Do.		An improved transistorised overload disconnector.
334/BOM/85	J. N. Ramechandra	10-12-85	Guard for electronic interconnections.
335/BOM/85	Mitsubishi Denki Kabushiki Kaisha,	12-12-1985	Digital distance relay.
336/BOM/85	Star Industrial & Textile Enterprises Limited.		Improvements in or relating to jet dyeing machine.

**APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002**

16th December, 1985

1005/Mas/85. Thomas and Pilliner (Proprietary) Limited. Sheave Wheel.

1006/Mas/85. Monsanto Company. Rapid Draining Artificial Turf Playing Field.

1007/Mas/85. AE PLC & Dresser Industries Inc. Improvements in or relating to bearings. (January 5, 1985; United Kingdom).

1008/Mas/85. Jeumont-Schneider & Brissonneau Et Lotz Marine. Thermal Energy Collector and System including a collector of this kind.

17th December, 1985

1009/Mas/85. Carborundum Universal Ltd. An alumina zirconia abrasive grain composition and a process for manufacturing the same.

1010/Mas/85. Maschinenfabrik Rieter AG. Device for continual sensing of the mass of a fibre sliver.

1011/Mas/85. BBC Brown, Boveri & Company, Limited. Process for the production of a lightning arrester using an active resistor core made of a voltage-dependent resistance material based on zno and lightning arresters produced thereby.

1012/Mas/85. Atochem. Process for the preparation of anthroquinone.

1013/Mas/85. The Bolts Company PLC. Therapeutic Agents. (January 17, 1985; United Kingdom).

1014/Mas/85. Raychem Corporation. Splice Case.

18th December, 1985

1015/Mas/85. M.A.N. Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft. Gravity-closing tongs for handling steel ingots, slabs or similar loads.

19th December, 1985

1016/Mas/85. Corning Glass Works. Optical Waveguide Fiber.

1017/Mas/85. Institut Francais Du Petrole. A method of consolidating a geological formation by thermal polymerization.

1018/Mas/85. Institut Francais Du Petrole. A vertical marine streamer.

1019/Mas/85. Lakshmi Machine Works Limited. Flyer Positioning Device.

**ALTERATION OF DATE**

157161. Ante dated to 22nd September, 1980. (370/Del/81)

157166. Ante dated to 6th October, 1978. (492/Del/81)

**COMPLETE SPECIFICATION ACCEPTED**

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for an Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 68-E; 69-D.

157147

Int. Cl. H 01 h 1/00; 36/00; G 05 f 1/00.

## A DEVICE FOR SWITCHING ELECTRIC CIRCUITS.

Applicants & Inventors : (1) VITALY IVANOVICH KOSHMAN, OF DONETSK, BULVAR SHEVCHENKO, 123, KV. 25, USSR; (2) VLADIMIR FEDOROVICH PETRICHENKO, OF DONETSK, ULITSA PROZHEKTOR-NAYA, 6, KV. 44, USSR; (3) BORIS STEPANOVICH GNILITSKY, OF DONETSK, ULITSA ARTEMA, 116, KV. 21, USSR; (4) VYACHESLAV DMITRIEVICH OBOROTOV, OF DONETSK, ULITSA MARII ULYANOVOI, 65, KV. 53, USSR; (5) ALEXANDR MIKHAILOVICH UBILKO, OF DONETSK, BULVAR SHEVCHENKO, 115, KV. 30; AND (6) LENOID PETROVICH ABARA, OF DONETSK, ULITSA NIZHNEKURGANSKAYA, 3, KV. 192, USSR.

Application No. 418/Cal/81 filed April 21, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A device for switching electric circuits, comprising main contacts arranged in a circle; a rotational electromechanical drive having a driving shaft and adapted to rotate the latter to through a predetermined angle; auxiliary contacts for connecting local control circuits of the device; an electromagnetic drive having an electromagnet for closing contacts and electromagnets for opening contacts; a hollow armature of the electro magnet for closing contacts, mounted on the driving shaft for movement along the axis thereof and rotation therewith; an armature of each electromagnet for opening contacts, reciprocating while opening the contacts; a contactor secured on the armature of the electromagnet for closing contacts and provided with at least one projection to operate the main contacts through mechanisms of separately closing contacts provided with contact fixing devices each connected with the armature of one of the electromagnets for opening contacts; and auxiliary contacts for connecting local control circuits of the device.

Compl. Specn. 24 pages.

Drgs. 5 sheets.

CLASS : 129-G.

157148

Int. Cl. : B 21 d 3/00.

## APPARATUS FOR COILING METAL STRIPS.

Applicants & Inventors : (1) DAVID ISAKOVICH OKUN, OF KRAMATORSK, ULITSA VOZNESENSKO-BO, 25, KV. 14, USSR; (2) IOSIF ISAKOVICH KAGANOVSKY, OF KRAMATORSK, ULITSA KATERINICHA, 18, KV. 9, USSR; (3) LJULDMILA GRIGORIEVNA, BAIT-SUR, OF KRAMATORSK, ULITSA BOGDANA KHMELNITSKOGO 15, KV. 7, USSR.

Application No. 34/Cal/82 filed January 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

An apparatus for coiling metal strips, comprising a housing, a drum rotatably mounted in the housing, having a free end supported on a swing support and including a hollow shaft with expandable segments, a power-actuated rod extending coaxially in the shaft for axial reciprocating movement with respect to the shaft, the rod being connected to said segments, wedge members mounted on the shaft for axial movement with respect to the power-actuated rod, associated with the latter through a power-driven mechanism for moving the wedge members by various amounts when the power-actuated rod moves by one and the same amount, and connecting the power-actuated rod with the segments; a set of compression springs arranged within the housing in a position concentric with the shaft and abutting a stop mounted on the drum shaft at one side thereof while at the other side abutting a sleeve rigidly secured on the rod and interacting with the actuator for moving said rod as the drum is being set to a retracted position.

Compl. Specn. 20 pages.

Drgs. 4 sheets.

CLASS : 32-F; a + 40-B + 126-C.

157149

Int. Cl. : B 01 j 11/00; C. 07 c 47/06; G 01 r 17/00.

## A REDOX POTENTIAL MEASURER FOR USE IN REGENERATING CATALYST IN THE PRODUCTION OF ACETALDEHYDE.

Applicant : LONZA LTD., OF GAMPAL/VALAIS, SWITZERLAND.

Inventors : 1. MARCEL POCHON, BRUNO RIGHETTI, AND PIERRE YONNER.

Application No. 246/Cal/82 filed March 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A redox potential measurer having a proportional integral regulator through which nitric acid is introduced at a controlled rate in a process for the regeneration of a conventional catalyst liquid which is used in the production of acetaldehyde from acetylene by the mercury-catalysed addition of water, wherein the spent catalyst liquid is treated with nitric acid at a temperature of from 80 to 150°C, the amount of nitric acid to be introduced being controlled by continuously monitoring the redox potential of the catalyst liquid, characterized in that the redox potential measurer employs an electrode pair, the measurement electrode being a polytetrafluoro-ethylene-insulated platinum electrode and the reference electrode being silver/silver chloride.

Compl. Specn. 8 pages.

Drgs. 1 sheet.

CLASS : 90-1.

157150

Int. Cl. C 03 c 5/16.

## DIRECTED FLOW THIN LAYER GLASS FUSION PROCESS.

Applicant : PQ CORPORATION, OF NO. 11 VALLEY FORGE EXECUTIVE MALL, VALLEY FORGE, PENNSYLVANIA 19482, U. S. A.

Inventors : 1. JOHN MARTIN ALEXANDER, 2. MAURICE GLENN PATTENGILL, 3. WILLIAM CHARLES BAUER.

Application No. 641/Cal/82 filed June 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A directed flow, thin layer glass fusion process comprising the steps of :

- (a) blending particulate glass making raw materials as herein described to form a homogeneous mixture, at least one of said raw materials having a cation-to-oxygen bond strength greater than 80 kcal/mole;
- (b) forming said mixture in any known manner into discrete compacted bodies of enduring homogeneous character;
- (c) heating said bodies at a predetermined temperature and for a predetermined period of time sufficient to raise their temperature significantly while avoiding surface melting or sticking;
- (d) charging the discrete heated bodies to a breakdown area of a refractory hearth in a furnace, said hearth being heated by a source of radiant energy, said bodies resting upon the refractories which form the hearth, the temperature within the furnace being sufficient to cause the discrete bodies to lose morphology in less than 15 minutes by forming a molten phase which is adapted to flow in the form of a thin layer in a direction away from the breakdown area to a melt-reaction area, said molten phase wetting any unmelted unreacted raw material so that it is carried by said flow, thereby maintaining homogeneity;

(e) heating in a known manner the melt-reaction are of the hearth with a source of radiant energy, a portion of the said radiant energy being transmitted through the flowing molten thin layer to heat the underlying refractory hearth, so that the said thin layer absorbs heat from the hearth refractories in addition to absorbing radiant energy to complete melting and reacting, thereby forming a molten glass; and

(f) recovering in any known manner the molten glass by drawing it from the hearth, the period of residence in the hearth being sufficient to accomplish essentially complete reaction of the raw materials.

Compl. Specn. 28 pages.

Drgs. Nil.

CLASS : 35-C.

157151

Int. Cl. : B 28 c 5/00.

A PROCESS FOR THE PREPARATION OF CELLULAR CONCRETE.

Applicant : TEXSA S A., PASAJE MARSAL 11-13, BARCELONA, SPAIN.

Inventor : 1. FRANCISCO CAMPS CODINA.

Application No. 793/Cal/82 filed July 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for the preparation of cellular concrete, comprising the step of foaming a cement slurry foaming a cement slurry foaming agent association, said slurry also containing optionally aggregate, accelerators antifreeze or other conventional additives, wherein said foaming step is carried out at a higher pressure higher than atmospheric pressure, so that when said higher pressure is reduced, the bubbles formed in the foaming step expand, thereby providing for expansion of the cellular concrete itself.

Compl. Specn. 8 pages.

Drgs. Nil.

CLASS : 157-A<sub>1</sub> & 4.

157152

Int. Cl. : B 61 1 17/00; E 01 b 7/00.

DUAL CONTROL TRAILABLE RAILWAY SWITCH MACHINE.

Applicant : AMERICAN STANDARD INC., OF 40 WEST 40TH STREET, NEW YORK, NEW YORK-10018, UNITED STATES OF AMERICA.

Inventor : 1. DOUGLAS S. HENDRICK.

Application No. 983/Cal/82 filed August 24, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A dual control trailable railway electric switch machine for moving the switch points between two extreme positions comprising, an electric motor for power driving the switch points between the two extreme positions, said electric motor is coupled to an electric clutch which is energized and de-energized in concordance with said electric motor, said electric clutch is coupled to a gear train which provides a mechanical advantage, said gear train is coupled to a spur gear which is mounted on a main shaft, said main shaft drives a pair of beveled gears which causes angular displacement of an output crank, said output crank is connected by an adjustable member to an operating rod which is connected to output crank for spring biasing the switch points in either of the two extreme positions.

Compl. Specn. 22 pages.

Drgs. 1 sheet.

157153

CLASS : 172-D<sub>2</sub>.

Int. Cl. D 01 h 7/10, 7/20.

SPINNING OR TWISTING SPINDLE.

Applicant : MASCHINENFABRIK RIETER AG, OF WINTERTHUR, SWITZERLAND.

Inventor : DIETER THALMANN.

Application No. 1003/Cal/82 filed August 28, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

Spinning or twisting spindle with a bearing rotatably supporting the spindle shaft which comprises a spindle shaft, a fixedly mounted housing and a reservoir containing a fluid lubricant, the bearing being secured to and enclosed by the housing and the spindle shaft being supported rotatably by the bearing, and the lubricant moving in a closed circulation path from the reservoir to the bearing arranged above the reservoir and back again to the reservoir, characterized in that the spindle shaft and the reservoir are connected together and are rotatable about a common axis, in that the reservoir is formed as an upwardly open container the sidewall of which is provided with an upper lip which extends inwardly towards the housing extending from above into the reservoir and which forms with the housing a sealing gap, and in that the portion of the circulation path leading from the reservoir to the bearing is formed by a tube leading from the reservoir to the bearing, which tube has an exit opening located above the bearing.

Compl. Specn. 13 pages.

Drgs. 2 sheets.

157154

CLASS : 98-G.

Int. Cl. : F 28 f 1/00, 3/02.

HEAT EXCHANGER CORE ASSEMBLY.

Applicant : CHROMALLOY AMERICAN CORPORATION, OF 120 SOUTH CENTRAL AVENUE, ST. LOUIS, MISSOURI 63105, U. S. A.

Inventors : 1. MARVIN D. BEASLEY, 2. WAYNE G. BLYSTONE, 3. GERALD W. LEMMON.

Application No. 1146/Cal/82 filed October 4, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A heat exchanger core assembly adaptable for allowing the passage of air therethrough comprising a plurality of substantially parallel tubular members extending longitudinally through said core assembly, a plurality of spaced apart fin elements having a plurality of openings extending therethrough adaptable for receiving said tubular members, said tubular members being disposed through said fin openings and adaptable for receiving and carrying a fluid medium therewithin, said fin elements being disposed in a substantially parallel relationship with each other and each pair of said fin elements defining a passageway therebetween for allowing air to flow therethrough, each of said fin elements having opposite side edges extending in a direction substantially parallel to the direction of air flow through the core assembly and each including a folded over side portion extending along each of said opposite side edges, said fin elements being stackable one upon the other such that the folded over side portions of one fin element butt against the adjacent fin element aligned therewith, said folded over side portions forming a continuous core side on each opposite side of said plurality of fin elements when said fin elements are stacked one upon the other for substantially preventing the leakage of air therethrough.

Compl. Specn. 27 pages.

Drgs. 6 sheets.

CLASS : 33-A &amp; D.

157155

Int. Cl. : B 22 d 41/12.

CASTING DEVICE WITH SEVERAL MELTING CRUCIBLES OPTIONALY MOVABLE TO A CASTING PIT.

Applicant : STOPING AKTIENGESELLSCHAFT, OF ZUGER STR. 76A CH- 6340 BAAR, SWITZERLAND.

Inventor : 1. ROBERT ZAUGG.

Application No. 1166/Cal/82 filed October, 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A casting device with several melting crucibles movable to a casting pit, which crucibles are equipped each with a sliding closure operated via a reduction gear, characterized in that the reduction gear and sliding mechanism on each crucible has on the input side a revolving shaft and that the casting pit of the plant is equipped with a rotary drive unit, which can be coupled with the revolving shaft on the crucible casting position by means of a telescope drive shaft and snap coupling.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 129-G.

157156

Int. Cl. : B 26 d 1/00.

A CUTOFF MACHINE FOR SEVERING ELONGATED MATERIAL.

Applicants & Inventors : (1) JOHN FRANK RJERA, 3689 SANDBURG, TROY, MI 48084, U. S. A. (2) BILLY JOSEPH BELAWSKI, SR., 8065 ROBINWOOD, DETROIT, MI 48234, U. S. A. (3) JOHN JOSEPH PAVELEC, 4155 THREE OAKS, APT. 2A, TROY, MI 48098, U. S. A.

Application No. 1168/Cal/82 filed October 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

A cutoff machine for severing elongated material moving continuously longitudinally of its length and having a die carriage attachable to the material for movement therewith including a transversely reciprocating cutting die for severing material during its movement, comprising : a frame having a bed portion slidably supporting said carriage member, an elongated ram extending parallel to said bed, means supporting said ram for movement in spaced relation to said bed including a slide member connected to said ram for relative sliding movement longitudinally of said ram and a pair of links attached to said slide member and to said frame to support said slide member for swinging movement parallel to said bed, rotating drive means having a crank operatively connected to said ram for reciprocating said ram relative to said slide member and moving said ram in an orbital path relative to said bed, and guide means on said ram connecting said cutting die for sliding movement longitudinally of said ram and transverse reciprocating movement relative to said bed during orbital movement of said ram relative to said bed.

Compl. Specn. 12 pages

Drgs. 2 sheets.

CLASS : 127-B; 129-E.

157157

Int. Cl. : B 21 k 23/00, F 16 c 3/02.

METHOD OF PRODUCING ELONGATED LARGE-SIZE FORGED ARTICLE

Applicant : HITACHI LTD, OF 5-1, MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN

Inventors : 1. KIMIHIKO AKAHORI 2. SHIGEO MAENO, 3. HIROYO KODAMA, 4. NORIO MORISADA

Application No. 1284/Cal/82 filed October 30, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A method of producing an elongated large-size forged article as herein described comprising : preparing molten metal of an alloy steel containing 0.08 to 0.25 wt % of carbon, 0.02 to 0.15 wt % of niobium, 9 to 12 wt % of chromium and more than 80 wt % of iron, pouring said molten metal and solidifying the same in a metal mold having a ratio H:D of the height H of the body neglecting the hot top portion to the diameter D at the height of  $\frac{1}{4}$  H falling within a range of not greater than 1, and forging the resulting ingot by applying pressure in the radial direction until the heightwise length of the forged article becomes greater than a diameter of the forged article.

Compl. Specn. 26 pages.

Drgs. 2 sheets.

CLASS : 42-A.

157158

Int. Cl. : A 24 c 1/02.

FEEDING PARTICULATE MATERIAL, ESPECIALLY TOBACCO.

Applicant : MOLINS PLC., OF 2 EVELYN STREET, LONDON SE8 5DH, ENGLAND.

Inventors : 1. EDWARD GROGE PRESTON, 2. DAVID BRUCE STEWART.

Application No. 1333/Cal/82 filed November 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Apparatus for feeding a metered stream of tobacco or other particulate or fibrous material, including a pinned feed roller arranged to feed material from a supply and past a pinned refuser roller whereby the feed conveyor will carry a metered stream of the material the pins of the feed roller comprising relatively high pins which are substantially evenly distributed amongst relatively low pins or lie in obliquely extending rows between rows of relatively low pins.

Compl. Specn. 9 pages.

Drgs. 2 sheets.

CLASS : 145-C.

157159

Int. Cl. : D 21 h 5/16.

WRAPPER FOR SMOKING ARTICLES AND SMOKING ARTICLE USING THE SAME.

Applicant : OLIN CORPORATION, AT PISGAH FOR EST, NORTH CAROLINA 28768, UNITED STATES OF AMERICA.

Inventor : 1. WILLIAM FRED OWNENS.

Application No. 1425/Cal/82 filed December 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A wrapper for smoking articles such as cigarettes, cigars and the like comprising a cellulosic sheet containing, as a filler, a small fraction of freshly precipitated amorphous magnesium hydroxide gel coated on or applied to the fibers of the sheet.

Compl. Specn. 18 pages.

Drgs. Nil.

CLASS : 127 A.

157160

Int. Cl. : F16d 1/10.

"AN IMPROVED COUPLING DEVICE".

Applicant : HARDEV SINGH, AN INDIAN NATIONAL OF 129 ZAMRUDI PUR, (OPP. L. S. R. COLLEGE) NEW DELHI-110048, INDIA.

Inventor : HARDEV SINGH.

Application for Patent No. 36/Del/81 filed on 22nd January, 1981.

Additional to Patent application No. 145738.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 3 Claims

A coupling device which is an improvement in or modification of the coupling device claimed in specification No. 145738 and adapted to selectively couple a drive member to a driven member comprising a male member secured to the drive member, a female member secured to the driven member consisting of flexible shaft, a coupling housing having a first engagement means and capable of having a rotational movement and, a second engagement means capable of having an axial movement either away or towards said first engagement means in order to effect a coupling or decoupling of the drive member with the driven member effected by means of a selector actuator characterized in that the first engagement means comprises a ring or an annular body having a single or plurality of inclined ribs or projections extending on opposite sides of said ring or annular body.

Compl. Specn. 7 pages.

Drgs. 1 sheet.

CLASS : 90A. I.

157161

Int. Cl. : C03b 25/00.

### "PROCESS FOR PRODUCING HEAT RADIATION FILTERS".

Applicant : ATUL GLASS INDUSTRIES (PVT.) LTD., AN INDIAN COMPANY OF 14/1, MIE STONE, MATHURA ROAD, FARIDABAD-121003, (HARYANA) INDIA.

Inventors : OM PARKASH GULATI, LAKSHMI KANT AGGARWAL, KISHAN LAL AND PREM PRAKASH GANDHI.

Application for Patent No. 370/Del/81 filed on 11th June, 1981.

Divided out of application for Patent No. 684/Del/80 filed on 22nd September, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 20 Claims

A process for producing heat radiation filters capable of reflecting a part of the heat radiation incident thereon comprising the steps of pretreating a glass substrate, applying a coating consisting of a solution of a metal acetyl acetonate by spraying into at least the received surface of said pretreated substrate, characterised in that said metals are selected from the group consisting of iron, chromium or cobalt singularly or in combination, heating said substrate to a temperature of between 450 to 700°C for a period such that the glass substrate attains a uniform temperature, and finally subjecting the glass substrate to the step of tempering or annealing.

Complete Specification 22 pages.

CLASS : 169A, B.

157162

Int. Cl. : F41d 9/00.

### "A FIRE ARM".

Applicant : THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, OF WHITEHALL, LONDON SW1A 2HB, ENGLAND, A BRITISH CORPORATION SOLE.

Inventors : NORMAN TREVOR BRINT, AND JACK WILLIAM COMLEY.

Application for Patent No. 426/Del/81 filed on 3rd July, 1981.

Convention date 14th July, 1980/8022929 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 4 Claims

A firearm having a body and a breech comprising : a breech block slideable longitudinally relative to the body of the firearm and having a forward breech end for engaging and pushing forward a round of ammunition in the breech; a firing pin slideable longitudinally relative to the body and to the breech block;

resilient means which can be stressed by forward movement of the breech block relative to the firing pin, said resilient means forming at least part of a mechanical connection between the breech block and the firing pin; detent means engageable with the firing pin to prevent longitudinally movement of the firing pin relative to the body of the firearm;

and a toggle mechanism comprising first and second toggle bars and forming at least a part of an operative linkage between a trigger and the breech block;

the first toggle bar being pivotally connected at a first pivot point to the breech block, the second toggle bar being pivotally connected at a second pivot point to the body of the firearm, said first pivot point being forward of said second pivot point, and the first and second toggle bars being pivotally connected together at a third pivot point, the trigger being operatively linked with the toggle mechanism whereby initial operation of the trigger moves the third pivot point towards alignment with the first and second pivot points so that the breech block is moved forwards and the resilient means is stressed, and whereby further operation of the trigger moves the toggle mechanism over centre to lock the breech block forward and releases the detent means.

Compl. Specn. 24 pages.

Drgs. 7 sheets.

CLASS : 70B.

157163

Int. Cl. : B01k 3/10.

### "ELECTRODE FOR USE IN ELECTROLYTIC CELL".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., FORMERLY KNOWN AS IMPERIAL CHEMICAL INDUSTRIES LIMITED, OFF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JE, ENGLAND, A BRITISH COMPANY.

Inventor : ROBIN ANDREW WOOL-HOUSE.

Application for Patent No. 455/Del/81 filed on 14th July, 1981.

Convention date 30.7.1980 8024922 (U.K.), 18.9.1980/8030230 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 17 Claims

An electrode, for use in an electrolytic cell of the filter press type, characterised in that the electrode comprises a substantially planar support member and, on at least one face of the support member, a plurality of elongated members made of electrically conducting materials substantially parallel to each other and each attached at the ends thereof to the support member, a substantial part of the elongated members lying in a plane displaced from and substantially parallel to the plane of the support member and the elongated members presenting faces lying in a plane substantially parallel to the plane of the support member.

Compl. Specn. 32 pages.

Drgs. 4 sheets.

CLASS : 63 A<sub>3</sub>, 63 B, 63i.

157164

Int. Cl. : H 02 k 1/00.

**"ROTOR CORE FOR AXIAL FLUX INDUCTION ELECTRIC MACHINE".**

Applicant : CARD-O-MATIC PTY. LIMITED, A COMPANY INCORPORATED IN THE STATE OF NEW SOUTH WALES, OF 20 McEVOY STREET, WATERLOO, NEW SOUTH WALES 2017, AUSTRALIA.

Inventor : LOUIS STANLEY.

Application for Patent No. 473/Del/81 filed on 23rd July, 1981.

Convention date 29th July, 1980 /PE 4753 (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**8 Claims**

A rotor core for an axial flux induction electric machine, said core consisting of a spiral metal strip defining an outer peripheral surface and an inner peripheral surface a set of holes in the strip spaced at longitudinal positions along the strip and forming radially extending slots extending between the inner and outer peripheral surfaces, a plurality of radially extending walls separating said slots, and wherein the slots have side surfaces which diverge radially outwardly so that the cross section of the slots increases radially outwardly, and said walls have a substantially constant cross section.

Compl. Specn. 9 pages.

Drgs. 4 sheets.

CLASS : 131B<sub>3</sub>.

157165

Int. Cl. : F21b 7/00.

**"A DUST ARRESTOR DEVICE FOR LARGE DIAMETER DEEP HOLE DRILLING FOR OPENCAST MINES".**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : JEEWANESH KUMAR SINHA & KUN-HUNNY PALLIYIL.

Application for Patent No. 491/Del/81 filed on 3rd August, 1981.

Complete specification left on 25th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

A dust arrestor device for large diameter deep hole drilling for opencast mines comprising a housing unit with openings at the top and bottom for the drill rod to pass through, an opening at the side of the housing unit having fixed thereto a flexible filter bag for filtering the dust laden air, tightening means for the drill rod and the filter bag in the form of cushion plates fitted with cushion rings fixed at top and bottom of the housing unit to prevent escape of dust/air and a cylindrical drill hole collar attached to bottom of the housing unit to prevent the dust getting back into the drill hole.

(Provisional specification 6 pages).

Compl. Specn. 9 pages.

Drgs. 3 sheets.

2-437GI/85

CLASS : 164 A; 40 F.

157166

Int. Cl. : C 12C 11/00; C 12b 1/00.

**"METHOD FOR THE BIODEGRADABLE CONVERSION OF SEWAGE OR INDUSTRIAL EFFLUENT TO RENDER IT LESS NOXIOUS".**

Applicant : THE UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY, A CORPORATE BODY ESTABLISHED UNDER ROYAL CHARTER OF MANCHESTER, ENGLAND AND SIMON-HARTLEY LIMITED, A BRITISH COMPANY, OF ETTURIA WORKS, STOKE-ON-TRENT, STAFFORDSHIRE ENGLAND.

Inventor : BERNARD ATKINSON, ANTHONY PINCHES, GEOFFREY MALCOLM BLACK AND PAUL JOHN SNADFORD LEWIS.

Application for Patent No. 492/Del/81 filed on 3rd August, 1981.

Divisional to Patent application No. 739/Del/78 filed on 6th October, 1978.

Convention dates 20th October, 1977/43613 (U.K.) &amp; 20th October 1977/43615 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**7 Claims**

A method for the biodegradable conversion of sewage or industrial effluent to render it less noxious which comprises the steps of providing within a reaction vessel a biological material support medium, and causing said biodegradable substances to contact and enter the support medium within the vessel, thus to feed and enhance the growth of a biological population sustained within said medium, characterised in that said support medium is provided in the form of a multiplicity of freely movable bodies each having an internal reticular structure throughout defining a substantial voidage therein such as to provide a protective environment which will promote active biological material growth there-within and thus support and contain the biological material as a substantially integral mass throughout said voidage, each said body having an extensive area of access by way of a multiplicity of openings or cavities in the external surface of each body, to the whole of said voidage therein thus permitting each said body substantially to fill with biological material over a period of time, and further characterised in that each said body is caused to move freely within the vessel during the growth process, thus to permit the biological material to metabolise on, and thus biologically degrade, the said substances.

Compl. Specn. 17 pages.

Drgs. 3 sheets.

CLASS : 32 F<sub>1</sub> & (C) and 32 F<sub>2</sub> (a) & (b)

157167

Int. Cl. : C 07C 35/00.

**"PROCESS FOR THE PREPARATION OF 4-(2-Hydroxy-4-(Substituted) Phenyl) Naphthalen-2-01s".**

Applicant : PFIZER INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

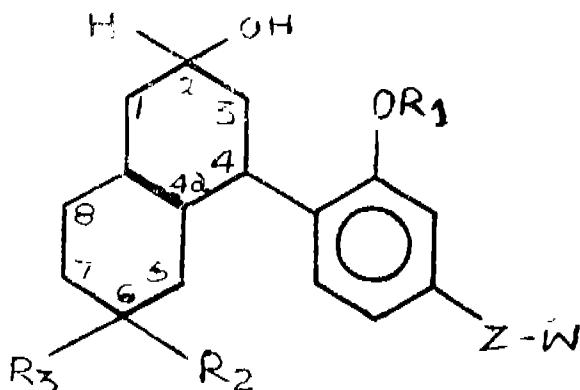
Inventor : MICHAEL ROSS JOHNSON & LAWRENCE SHERMAN MELVIN.

Application for Patent No. 493/Del/81 filed on 04th August, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

A process for the preparation of compounds having Formula I



wherein

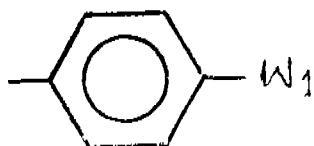
R<sub>1</sub> is hydrogen, benzyl or is alkanoyl having from one to five carbon atoms or mandeloyl;

R<sub>2</sub> when taken individually is hydrogen;

R<sub>3</sub> when taken individually is hydrogen; methyl, hydroxy, hydroxymethyl, -OR<sub>1</sub> 'or-CH<sub>2</sub>OR<sub>1</sub>', wherein R' is alkanoyl having 1 to 5 carbon atoms or mandeloyl;

R<sub>4</sub> and R<sub>5</sub> when taken together are oxo, methylene or alkylene having from two to four carbon atoms;

W is hydrogen, pyridyl, or a radical of Formula IX



wherein W<sub>1</sub> is hydrogen, chloro or fluoro;

when W is hydrogen, Z is

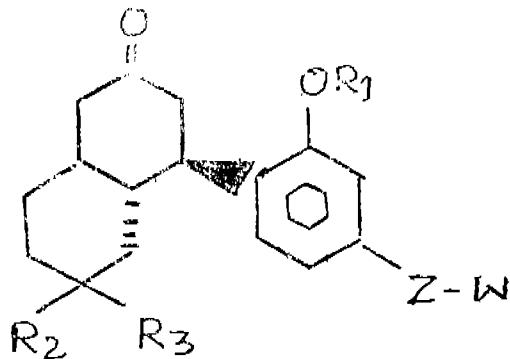
(a) alkylene having from five to thirteen carbon atoms;

(b) -(alk<sub>1</sub>)<sub>m</sub>-0-(alk<sub>2</sub>)<sub>n</sub>-wherein each of (alk<sub>1</sub>) and (alk<sub>2</sub>) is alkylene having from one to eight carbon atoms; each of m and n is 0 or 1; with the provisos that the summation of carbon atoms in (alk<sub>1</sub>) plus (alk<sub>2</sub>) is not less than three or greater than eight; and at least one of m and n is 1;

when W is other than hydrogen, Z is

(a) alkylene having from three to eight carbon atoms; or

(b) -(alk<sub>1</sub>)<sub>m</sub>-0-(alk<sub>2</sub>)<sub>n</sub>-wherein each of (alk<sub>1</sub>) and (alk<sub>2</sub>) is alkylene having from one to eight carbon atoms; each of m and n is 0 or 1; with the provisos that the summation of carbon atoms in (alk<sub>1</sub>) plus (alk<sub>2</sub>) is not less than three or greater reducing in any known manner a compound of the Formula II.



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, W and Z are as defined above.

Compl. Specn. 77 pages.

Drgs. 6 sheets.

CLASS : 195C.

157168

Int. Cl. : F 16 L 5/00.

"AN ISOLATING VALVE OR STOPCOCK".

Applicant : FRANCOIS GEMIGNANI, OF ZONS INDUSTRIELLE 1 A PALUNETTE CHATEAUNEUF LES MARTIGUES BOUCHES-DU-RHÔNE, FRANCE, A FRENCH CITIZEN.

Inventor : FRANCOIS GEMIGNANI.

Application for Patent No. 494/Del/1981 filed on 04th August, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

An isolating valve or stopcock comprising a housing mounted in a fluid circuit, having a seating for a closure member fixed on one end of a sliding rod, mounted in a guide sleeve, and on the other end of which is mounted a piston displaceable in a control cylinder under the action of a fluid under pressure, there being a tubular member concentric with the end of the sliding rod carrying the closure member, the length and the cross-section of the tubular member having such sizes that, when the stopcock is open, the tubular member is sealed by the closure member.

Compl. Specn. 11 pages.

Drgs. 3 sheets.

6

157179

CLASS : 128E.

Int. Cl. : A 61 b 5/00.

"PHYSIOLOGICAL ELECTRODE ASSEMBLIES FOR ACHIEVING A MULTIPLICITY OF PHYSIOLOGICAL FUNCTIONS".

Applicant : R2 CORPORATION, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 2300 MAIN STREET, EVANSTON, STATE OF ILLINOIS, UNITED STATES OF AMERICA

Inventor : ROGER LEE HEATH.

Application for Patent No. 496/Del/1981 filed on 05th August, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 43 Claims

A physiological electrode assembly for achieving a multiplicity of physiological functions of the kind such as herein described comprising :

- a first electrode element to be attached to a patient;
- a second electrode element to be attached to the patient;

interrelating means for selectively connecting said electrode elements to a monitoring device, a stimulating device and a therapeutic device to produce desired operation of each such device through said electrode elements, the monitoring device, the stimulating device and the therapeutic device being otherwise separate and unrelated; and

protective means connected with said interrelating means for selectively permitting desired combinations of the monitoring device, the stimulating device and the therapeutic device to be simultaneously connected to the patient solely through said first and second electrode element.

Compl. Specn. 67 pages.

Drgs. 9 sheets.

CLASS : 42 A.4.

157170

Int. Cl. : A 24c, 5/12.

"A DEVICE FOR SIMULTANEOUSLY CUTTING TWO CONTINUOUS RODS OF CIGARETTE".

Applicant : G. D. SOCIETA PER AZIONI, OF VIA POMPONIA, 10, 40100 BOLOGNA, ITALY, AN ITALIAN COMPANY.

Inventor : FENZO SERAGNOLI.

Application for Patent No. 680/Del/1981 filed on 19th October, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A device for simultaneously cutting two continuous rods of a cigarette produced by a single cigarette-making machine and arranged side by side with one another on the same plane, the device comprising a cutting head and a cutting reaction device supporting the said rods during cutting, the said cutting head being positioned facing the said rods and including a drive shaft substantially parallel to the said rods and a drum rotatably supporting at least one blade extending radially from the said drum and adjustable in position with respect to this latter about an axis radially thereof, the said drum being connected to the said drive shaft by means of a coupling connecting skew axes and being supported by a slide movable along a cylindrical path guide to rotate with respect to the said rods about an axis of rotation passing through the said coupling and perpendicular to the plane of the rods; characterised by the fact that the said coupling is a constant velocity joint and the said drive shaft extends through the said slide; said axis of rotation intersecting the plane of the rods at a point equidistant between the rods themselves and being coplanar with said axis of adjustment of the said blade, and the said drive shaft being connected to the said cutting reaction device by transmission means.

Compl. Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 55F<sub>2</sub>.

157171

Int. Cl. : A 61 k -27/00.

"A PROCESS FOR THE PREPARATION OF AN ACNE COMPOSITION".

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, ANSARI NAGAR, NEW DELHI-110016, INDIA, AN INDIAN INSTITUTE.

Inventor : JAGJIT SINGH PASRICHA.

Application for Patent No. 711/Del/1981 filed on 13th November, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 6 Claims

A process for the preparation of a composition for the removal of acne which consists in adding 1 to 10% by volume of lactic acid to at least 1% solution of a compatible detergent in a solvent selected from glycerine or propylene glycol, optionally adding 1 to 7% by weight of hydroquinone to the preparation thus obtained.

Compl. Specn. 8 pages.

CLASS : 28-1..

157172

Int. Cl. F 23 d 1/00.

AN IMPROVED STEAM GENERATOR.

Applicant : L. & C. STEINMULLER GMBH, OF POSTFACH 1949/1960, FABRIKSTRASSE 1, D-5270 GUMMERSBACH 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : KLAUS LEIKERT.

Application No. 231/Cal 82 filed February 27, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim

A steam generator of the type which is energised by powdered coal annular burners having flames with internal reflux areas into which ignition energy is introduced centrally by powdered coal pilot burners, characterized by means for supplying primary and secondary air flow with an air coefficient  $\lambda = 1.1$  to 0.4 under powder-air to powder weight ratio of at least 1.0 to 0.2 once or a plurality of times and under continuous predetermined rate of flow of powdered coal to said pilot burners with the adjusted air coefficient  $\lambda$  of 1.1 to 0.4.

Compl. Specn. 6 pages.

Drgs. 1 sheet.

CLASS : 129-G.

157173

Int. Cl. : B 24 b 39/00

METHOD OF MANUFACTURING A METAL WORK-PIECE AND FINISHING METAL SURFACES BY SURFACE TREATMENT OF WORK PIECES.

Applicant : UNITED TECHNOLOGIES CORPORATION, AT 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT 06101, UNITED STATES OF AMERICA.

Inventors : 1. JAMES WESLEY NEAL, 2. JOSEPH FREDERICK LOERSCH.

Application No. 1024/Cal 82 filed September 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

A method of manufacturing a metal workpiece and finishing metal surfaces by surface treatment of workpieces to provide residual compressive stresses corresponding to a peening intensity of at least 0.1 mm N and surface finish smoother than 40AA, characterized in that the workpiece surface is peened with spherical shot particles, the shot particles being infrangible, having a hardness greater than the workpiece, a surface finish better than 30AA, and substantially uniform diameter within the range 1-3.5 mm.

Compl. Specn. 36 pages.

Drgs 8 pages.

CLASS : 48-D4.

157174

Int. Cl. H 02 g 7/00.

A DEVICE FOR THE SUSPENSION OF THE CONDUCTORS IN A BUNDLE IN HIGH AND VERY HIGH VOLTAGE ELECTRIC LINES.

Applicant : ISELFA S.r.l., OF 21048 SOLVIALE ARNO (VARESE), ITALY.

Inventor : GIOVANNI POLIZZOTTO.

Application No. 1257/Cal/82 filed October 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A device for the suspension of conductors in a bundle in high and very high voltage electric lines, particularly of the type wherein the line comprises, in correspondence of each suspension point, a pair of supporting struts, connected by a suspension catenary carrying, at predetermined mutual distances, supports for the suspension of conductors in a bundle, characterized in that, each suspension support is formed by a central elongated rigid core, having its axis parallel to the longitudinal axis of the bundle of conductors, onto which core there is fixed at least one set of radially positioned brackets, each for the support of a sub-conductor of the bundle, the tie rods forming the insulating catenary being furthermore directly anchored onto said core.

Compl. Specn. 13 pages.

Drgs. 7 sheets.

CLASS : 101-H.

157175

Int. Cl. : E 02 b 7/20.

A STRUCTURE FOR DIVERGING PART OF A WATER FROM A CANAL TO A FIELD.

Applicant & Inventor : JUGMOHAN SURI, OF 24, MANDEVILLE GARDENS, FLAT NO. B/2/7, CALCUTTA-700019, STATE OF WEST BENGAL, INDIA.

Application No. 59/Cal/1983 filed January 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A structure for diverting a part of the water from the canal to a field comprises an inlet section and an outlet section with a sluice between the said inlet and outlet sections for a removable lock gate to be fitted in the sluice for regulating the discharge of water characterized by that the said inlet section consists of two spaced walls one of which diverges from the sluice to the outer end so that the inlet passage between the two spaced walls gradually increases from the sluice to the ends of the two walls and tapers in height from the sluice to the base or lower end thereby assisting to direct the flow of water from the canal towards the outlet through the sluice, the inlet section having spaced walls to direct the flow of water discharged through the sluice.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 53-C.

157176

Int. Cl. : B 62 k 17/00.

AN IMPROVED CYCLE.

Applicant & Inventor : GEORGE HON CHEUNG HUNG, OF MERRY TERRACE, 4 SEYMOUR ROAD, BLOCK K, 1ST FLOOR, HONG KONG.

Application No. 241/Cal/84 filed February 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

An improved cycle, which comprises rotatable crank means, at least one drive wheel rotatable in response to rotation of the crank means, the position of the axis of rotation of the crank means being fixed with respect to the drive wheel axle, pedal means mounted on the crank means for effecting rotation of the crank means and a saddle, wherein the improvement comprises mounting the saddle so as to be pivotally movable about a point, the position of which is fixed in relation to the drive wheel axle, and providing means for transmitting a force from the saddle to the crank means to effect rotation of the crank means, the force transmitting means acting on one side of the axis of rotation of the crank means and the pedal means being mounted on the crank means on the other side of the said axis, whereby the cycle may be propelled by the application of a force alternately to the pedal means and to the saddle.

Compl. Specn. 12 pages.

Drgs. 5 sheets.

CLASS : 40-F; 103.

157177

Int. Cl. : C 23 f 11/00.

A CORROSION INHIBITING COMPOSITION FOR INHIBITING THE CORROSIVE ACTION OF AQUEOUS ALKANOL-AMINE SOLUTIONS AND A METHOD OF ITS PREPARATION.

Applicant : UNION CARBIDE CORPORATION, AT OLD RIDGEBOURG ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA, FORMERLY OF 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : 1. JOHN GROOME MCCULLOUGH, 2. KENNETH JAMES BARR.

Application No. 351/Cal/84 filed May 22, 1984.

Division of Application No. 682/Cal/81 dated 24th June, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A corrosion inhibiting composition suitable for inhibiting the corrosive action of aqueous alkanol-amine solutions when in contact with a metallic surface comprising an inhibiting amount as herein described of the combination of at least one vanadium compound wherein the vanadium therein is in the plus four or plus valence state in the aqueous alkanolamine solution and 1, 4-naphthoquinone, the concentrations of the vanadium compound and 1, 4-naphthoquinone being from 0.01 mM to 50 mM.

Compl. Specn. 17 pages.

Drgs. Nil.

CLASS : 206-E.

157178

Int. Cl. H 03 k 19/20.

PROGRAM TIMER CONTROL DEVICE.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. WILLIAM HARRIS MOSS, 2. THOMAS JOSEPH SCHEIB.

Application No. 264/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A program timer control device for controlling the variation of a parameter in an operating system comprising :

a real time integrator for generating a time signal corresponding to the time of day during at least one twenty four hour period;

pulse means connected to said integrator for generating a day pulse upon the passage of each full day;

a controllable parameter controller for varying the parameter of the operating system;

a first function generator for controlling the parameter controller according to a first parameter corresponding to a working day;

a second function generator for controlling the parameter controller according to a second function corresponding to a non-working day;

a controllable selection switch connected to said function generators and said parameter controller for applying one of said first and second functions to said parameter controller;

a day counter connected to said pulse means for counting the passage of days and for generating a weekend signal upon the occurrence of a weekend day;

a manually operable setting means operable when a following day is a holiday to generate a holiday occurrence signal; and

a logic circuit connected to said setting means, said day counter, said pulse means and said selection switch for operating said selection switch to apply said second function corresponding to a non-working day to said parameter controller upon one of the occurrences of a weekend signal and a day pulse signal which occurs immediately after said logic circuit has received a holiday occurrence signal, said logic circuit controlling said switch to apply said first function corresponding to a working day to said parameter controller at all other times.

Compl. Specn. 17 pages.

Drgs. 2 sheets.

CLASS : 9-C.

157179.

Int. Cl. C 22 c 19/00.

METHOD OF PRODUCING A CORROSION RESISTANT NICKEL BASE ALLOY.

Applicant : TELEDYNE INDUSTRIES, INC., OF POST OFFICE BOX 759 MONROE, NORTH CAROLINA, UNITED STATES OF AMERICA.

Inventors : 1. RICHARD L. KENNEDY, 2. RONALD J. GERLOCK, 3. CLARENCE G. BIEBER.

Application No. 369/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A method of producing a nickel base alloy having excellent hot and cold workability and superior corrosion resistance to a variety of media including deep sour gas well environments, said method comprising melting together raw materials consisting essentially of 27 to 33% chromium, 8 to 12% molybdenum, 0 to 4% tungsten, up to 1.5% iron, up to 12% cobalt, up to 1.5% aluminium, up to 1.5% carbon, up to 1.5% aluminium, up to 1.5% titanium, up to 2% columbium, and the balance nickel, and casting the molten raw materials to form an alloy.

Compl. Specn. 16 pages.

Drgs. Nil.

CLASS : 127-I.

157180

Int. Cl. : F 16 d 1/00.

#### FLEXIBLE COUPLING.

Applicant : ESBI TRANSMISSIONS PRIVATE LIMITED, OF 8 CAMAC STREET (6TH FLOOR), CALCUTTA-700 017, WEST BENGAL, INDIA.

Inventor : SRI SAMIR BOSE.

Application No. 492/Cal/83 filed April 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

A flexible coupling comprising two rigid metallic members e.g. flanged members and/or hubs, adapted to be fastened to two substantially co-axially disposed rotating members between which torque is required to be transmitted on rotation, said rigid metallic members being connected by a flexible element, characterised in that the said flexible element is constituted by a diaphragm of reinforced elastomeric material having a circular opening at the centre, thereby defining inner and outer circumferences, or by a pair of two said similar diaphragms which are symmetrically disposed in relation to each other in assembly of the coupling, that the said diaphragm or each of said diaphragms has two annular portions at the inner and outer circumferences thereof, that the said two annular portions are connected integrally by a curved portion thereby keeping the said two annular portions in different planes, and that the said two rigid metallic members are adapted to be connected through said annular portions.

Compl. Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 152-F.

157181

Int. Cl. : C 09 k 3/10.

A METHOD OF PRODUCING A HEAT-SEALABLE SHEET OR FILM FROM POLYETHYLENE AND ISOBUTYLENE COPOLYMER FOR COVERING AN ITEM.

Applicant : RADIATION DYNAMICS INC., OF 316 SOUTH SERVICE ROAD, MELVILLE, LONG ISLAND, NEW YORK 11746, UNITED STATES OF AMERICA.

Inventor : ANTHONY J. BEREJKA.

Application No. 1450/Cal/83 filed November 24, 1983.

Division of Application No. 552/Cal/80 dated 9th May, 1980.

Appropriate office for opposition proceedings (Rule 4, polyethylene and isobutylene copolymer for covering an item,

#### 5 Claims

A method of producing a heat-sealable sheet or film from polyethylene and isobutylene copolymer for covering an item, comprising :

- (a) blending in solid form and at elevated temperature, using conventional techniques, a composition comprising a cross-linkable polyethylene, a copolymer of isobutylene and of conjugated diene, said composition having 30 to 70 wt. % polyethylene and 70 to 30% copolymer, together with conventional additives, cooling the resulting blend and granulating said blend in a conventional manner and extruding the granulated particles of said blend through a die to form a sheet or film,
- (b) irradiating said sheet or film thereby to cross-link the polyethylene,
- (c) heating said sheet or film to a temperature above its crystalline softening point,
- (d) stretching said sheet or film and cooling it while stretched so as to maintain the stretched dimension,
- (e) wrapping said item with said sheet or film,
- (f) heat sealing the seams of said wrap, and
- (g) heating said sheet to a temperature above its crystalline softening point thereby to cause contraction of the sheet to its original dimension.

Compl. Specn. 32 pages.

Drg. 1 sheet.

CLASS : 24D.

157182

Int. Cl. : F 16 d 65/38.

#### INTERNAL SHOE DRUM BRAKE.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED CO., GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventors : (1) ROBERT JOSEPH WARNOCK, (2) HUGH JEROME MARGETTS.

Application No. 7/Mas/83 filed January 11, 1983.

Convention date : January 12, 1982. (No. 8200767 : United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 10 Claims

An internal shoe drum brake comprising a strut extending between a pair of brake shoes, an actuator operable to separate the shoes for braking the drum, the strut being constrained to follow outward movement of one shoe upon shoe separation, the other shoe carrying a rotary cam device which is normally urged into direct engagement with the strut at a location substantially in line with the longitudinal direction of the strut and means to prevent rotation of the cam device relative to the strut when the device and strut are in

engagement, the arrangement being such that, upon operation of the actuator, the cam and strut move in opposite directions and become disengaged when outward movement of the shoes exceeds a predetermined amount, whereupon means urging the cam device to rotate in a direction such as to re-engage it with the strut is able to operate to effect such re-engagement at a different part of the cam and thereby set a new retracted position of the shoes when the actuator is deactivated.

Compl. Specn. 9 pages.

Drgs. 1 sheet.

CLASS : 124.

157183

Int. Cl. : C 06 f 1/00.

**METHOD OF MAKING SAFETY MATCH STICKS.**

Applicant & Inventor : VICTOR EBENEZER EDWIN, MISSION HOUSE, DURIGUDI, SHIMOGA-577 201, KARNATAKA.

Application No 17/Mas/83 filed January 22, 1983.

Divisional to Patent Application No. 108/Mas/80 dated June 13, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims No drawings

A method of making safety match sticks comprising the steps of grinding together a plastic material and waste wood, admixing the ground mixture with a known solvent and/or a known binder to form a paste, heating and extruding said paste in the form of sticks of predetermined dimension and finally daubing one end of said sticks with a combustible material.

Compl. 4 pages.

CLASS 37-A.

157184

Int. Cl. B 01 d 21/26.

**SUSPENSION DEVICE FOR CENTRIFUGAL SEPARATIONS.**

Applicant : K. S. SEETHARAMIAH & SONS (PVT.) LTD., 29/1, JARAGANAHALLI, 10TH K. M. KANAKAPURA ROAD, BANGALORE-569 978, KARNATAKA.

Inventor : K. S. RAMASWAMY.

Application No. 41/Mas/83 filed February 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

A suspension device for a centrifugal separator comprising a rotatable main shaft, a clutch pulley fixedly mounted to the lower end of the main shaft, a second rotatable shaft carrying the rotatable basket fixed at its lower end, a clutch sleeve fixedly mounted on the second shaft, a housing for bearings supporting the second shaft and resilient means restraining the said housing from rotation, the said resilient means being adapted to absorb vibrations of the second shaft transmitted thereto through the said housing and including a rubber bush having outwardly directed flanges at its ends.

Compl. Specn. 10 pages.

Drgs. 1 sheet.

CLASS : 172 (D6 + E).

157185

Int. Cl. B 65 h (17/00 + 19/00).

**A METHOD OF MANUFACTURING A REEL FOR WINDING RAW SILK FILAMENTS AND A REEL SO MADE.**

Applicant & Inventor : K. S. SEETHARAMIAH & SONS (PVT.) LTD., 29/1, JARAGANAHALLI, 10TH K. M. KANAKAPURA ROAD, BANGALORE-569 078, KARNATAKA.

Application No 42/Mas/83 filed February 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A method of manufacturing a reel for winding raw silk filaments, which reel has a central hub, two laterally spaced rims joined to each other by a plurality of spaced webs and a plurality of spokes connecting the said webs, the hub and one of the rims providing an integral unit, the said method comprising mixing together a charge of nodules of a known hard synthetic thermoplastic or thermosetting material, a known colouring material, a known plasticizer, if necessary, and a known blending agent in a mixer, heating the charge for melting the same and feeding the molten charge into a die conforming to the shape and configuration of the reel, at a pressure of at least 300 pounds per square inch and removing the moulded reel from the die after cooling.

Compl. Specn. 10 pages.

Drgs. 1 sheet.

CLASS : 24-F.

157186

Int. Cl. F 16 d 65/12.

**A DISC FOR A VEHICLE DISC BRAKE.**

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, OF GREAT KING STREET, BIRMINGHAM-19, ENGLAND.

Inventor : GERALD ALAN OTTHWELL.

Application No. 81/Mas/83 filed April 20, 1983.

Convention date : April 27, 1982. (No. 8212133 : United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A disc for a vehicle disc brake comprising at least two components of annular outline, in which portions at adjacent ends of adjacent components are staggered to form overlapping abutments, and fastening means are inserted through superimposed openings in complementary pairs of abutments to couple the components together.

Compl. Specn. 6 pages.

Drgs. 2 sheets.

CLASS : 32F & 152E.

157187

Int. Cl. C 08 g 39/00

**A PROCESS FOR MANUFACTURING A NOVEL THERMOSETTING PLASTIC BY GAMMA IRRADIATION.**

Applicant : THE WESTERN INDIA PLYWOODS LTD., OF BALIAPATNAM, CANNANORE-670 010, KERALA.

Inventors : (1) SURENDRA KUMAR, (2) DFO DUTT, (3) RAMAMURTI NANDAKUMAR

Application No. 97/Mas/83 dated May 4, 1983.

Complete Specification left July 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims. No drawing

A process for manufacturing a novel thermosetting plastic comprising (a) mixing diallylphthalate (DAP) and methyl methacrylate (MMA) such that the molar percentage of DAP in the mixture lies in the range of 5 to 15%; (b) adding unsaturated polyester resin (PF) such as herein described to the mixture obtained at the end of step (a) so that 100 parts of the resultant mixture contain 5 to 20 parts of unsaturated polyester resin; (c) irradiating the resultant mixture of step (c) at ambient temperature with gamma ray; and (d) carrying out the irradiation at a dose rate lying in the range of 0.005 to 0.15 Mrad/hr. till the polymerisation is complete.

(Prov. 4 pages; Com. 6 pages).

CLASS : 152-E.	157188	7 Claims
Int. Cl. C 44d 1/09, 1/50.		
<b>A PROCESS FOR MANUFACTURING A WOOD POLYMER COMPOSITE BY GAMMA IRRADIATION.</b>		
Applicant : THE WESTERN INDIA PLYWOODS LTD., PALIAPATNAM, CANNANORE-670 010, KERALA.		
Inventors : (1) SURENDRA KUMAR, (2) DEO DUTT, (3) RAMAMURTI NANDAKUMAR.		
Application No. 98/Mas/83 filed May 4, 1983.		
Complete Specification left July 4, 1983.		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
8 Claims. No drawing		
A process for manufacturing wood polymer composite comprising subjecting inferior timbers such as hereinbefore described to evacuation followed by impregnation with a monomer system consisting of ADP, MMA and PE such as herein described, and irradiating the resultant product with gamma rays till the polymerisation is complete, the irradiation being carried out at a dose rate lying within a range of 0.005 to 0.20 Mrad/hr.		
(Prov. 4 pages; Com. 5 pages).		
CLASS : 32E & 152E.	157189	
Int. Cl. C 08 g 39/00.		
<b>A PROCESS FOR MANUFACTURING A THERMO-SETTING PLASTIC BY GAMMA IRRADIATION.</b>		
Applicant : THE WESTERN INDIA PLYWOODS LTD., PALIAPATNAM, CANNANORE-670 010, KERALA.		
Inventors : (1) SURENDRA KUMAR, (2) DEO DUTT, (3) RAMAMURTI NANDAKUMAR.		
Application No. 99/Mas/83 dated May 4, 1983.		
Complete Specification left July 4, 1983.		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
5 Claims. No drawing		
A process for manufacturing a thermosetting plastic comprising (a) mixing diallylphthalate (DAP) and methyl methacrylate (MMA) so that the molar percentage of DAP in the mixture lies in the range of 5 to 25%; (b) irradiating the resultant mixture of step (a) with gamma rays at ambient temperature; and (c) carrying out the irradiation at a dose rate of 0.005 to 0.15 Mrad/hr. till the polymerisation is complete.		
(Prov. 4 pages; Com. 5 pages).		
CLASS 24-E.	157190	
Int. Cl. : F 16 d 65/12 & F 16 d 65/04.		
<b>AN AUTOMATIC ADJUSTER FOR A SHOE-DRUM BRAKE.</b>		
Applicants : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, GREAT KING STREET, BIRMINGHAM-19, ENGLAND.		
Inventors : TIMOTHY JAMES MARTIN, (2) BERNARD THOMAS PAGE, (3) FRANCIS HENRY ANDREW HOOPER.		
Application No. 106/Mas/83 filed May 16, 1983.		
Convention Date : May 17, 1982. (No. 8214305 : United Kingdom).		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.		
An automatic adjuster for a shoe drum brake comprising a strut of variable length which includes a pair of threadedly interengaged parts, relative rotation between which causes the strut length to vary so as to effect adjustment of the retracted positions of one or more brake shoes with which the strut is operatively associated in use, restraint means being provided of which circumferentially facing surfaces co-operate to limit relative rotation of the parts when the latter are near to an extremity of adjusting movement so as to prevent engagement of an axially facing surface of at least one of the parts with an adjacent opposed axially facing surface, but which otherwise permit unrestricted relative rotation of the parts.		
Compl. 10 pages; Drgs. 2 sheets.		
CLASS : 129-G.	157191	
Int. Cl. : C 23 f 1/02.		
<b>SPOT SCARFING NOZZLE FOR USE IN GANG ARRANGEMENT.</b>		
Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK-10017, UNITED STATES OF AMERICA.		
Inventor : STEPHEN AUGUST ENGEL.		
Application No. 1566/Cal/76 filed August 25, 1976.		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.		
13 Claims		
An oxygen discharge nozzle for selectively scarfing defects in a metal body while avoiding the formation of fins along the boundaries of the scarfing cut, said nozzle being suited for simultaneous side-by-side operation in combination with other like nozzles to produce scarfing cuts at least as wide as the width of said combined nozzles, said nozzle comprising : an oxygen gas passage terminating in a nozzle discharge orifice, said orifice being characterized by having a central section and at least one end section, the central section being defined by parallel upper and lower edges and being adapted to discharge a sheet-like stream of cutting oxygen of uniform intensity across the metal body to be scarfed, and the end sections being defined by having at least one of its edges inclined such that the height of the end section of the discharge orifice is gradually reduced to a lesser value towards the side edge of the orifice but remaining greater than zero at said edge so as to diminish the intensity of the oxygen stream towards said edge of the orifice to the point where the flow of oxygen discharged at said edge is insufficient to scarf the work-piece but sufficient to produce a fin-free scarfing cut at least as wide as the width of said nozzle thereby allowing a plurality of said nozzles to operate side-by-side to produce a fin-free cut of preselected width.		
Compl. Specn. 16 pages; Drgs. 2 sheets.		
CLASS : 84-C1.	157192	
Int. Cl. : C 10 I 5/00, 9/00.		
<b>DEVICE FOR PRODUCING A COAL-DUST ANNU-LAR-BURNER FLAME FOR FIRING FURNACES.</b>		
Applicant : L. & C. STEINMULLER GMBH, OF POST-FACH 100855/100865, D-5270 GUMMERSBACH, FEDERAL REPUBLIC OF GERMANY.		
Inventors : 1. KLAUS LFIKERT, 2. KLAUS-DIETER RENNERT.		
Application No. 161/Cal/82 filed February 10, 1982.		
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.		

## 3 Claims

A device for producing a coal-dust annular-burner flame for firing furnaces, with which the ignition energy is introduced in a manner as herein described centrally in the internal reflux area of the coal-dust annular-burner flame, the said ignition energy for the annular-burner flame being produced by an ignited fuel dust ignited flame and the fuel-dust igniting flame being operated with a fuel dust, which differs in its grain and/or consistency from the fuel, characterized by that the dust-shaped ignition fuel is withdrawn from the pipe of the main fuel flow after an existing grinding apparatus at a flow-technically favourable point by means of suction via a tapping probe with shutoff device, with the latter's withdrawing aperture being oriented in the direction of the main fuel flow.

Compl. Specn. 6 pages.

Drgs. 1 sheet.

CLASS : 85-D.

157193

Int. Cl. : F 27 b 14/60.

## SLIDING GATE VALVES FOR METALLURGICAL VESSELS.

Applicant : STOPINC AKTIENGESELLSCHAFT, ZUGER STR. 76a, CH-6340 BAAR, SWITZERLAND.

Inventor : 1. HERBERT BACHMANN.

Application No. 463/Cal/82 filed April 26, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A sliding gate valve for metallurgical vessels comprising a fixed base plate near the discharge end of the vessel, a valve housing and a slider unit which is linearly displaceable with respect to the base plate, the slider unit including a carrier affording guide surfaces, a sliding plate connected to move with the carrier and stressing elements connected to the carrier which are arranged to exert a force on the sliding plate to press the latter against the base plate, the valve housing constituting a rigid unit which affords a support surface which is engaged by the base plate and guide surfaces which are engaged by the guide surfaces of the carrier and thereby slidably support the carrier at a predetermined spacing from the support surface of the housing.

Compl. Specn. 17 pages.

Drgs. 4 sheets.

CLASS : 39-A.

157194

Int. Cl. : C 08 g 53/16.

## A THERMAL BONDED NON-WOVEN FABRIC COMPOSED OF POLYESTER/POLY-ETHYLENE CONJUGATE FABRICS AND ADSORBANT PRODUCT THEREOF.

Applicant : CHICOPEE, OF 317 GEORGE STREET, NEW BRUNSWICK, NEW JERSEY 08903, U.S.A.

Inventors : 1. ALFRED THOMAS MAYS, 2. CHARLES JAMES SHIMALJA.

Application No. 745/Cal/82 filed June 25, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A thermal bonded non-woven fabric having a bulk density of from 0.01 to 0.15 grams per cubic centimeter, and comprising thermal bonded polyester/polyethylene conjugate fibers, said fabric having an excellent combination of strength, low bulk density, and softness, wherein the fibre-fringence of the polyester in the fibers of said fabric is not significantly different from that of the polyester in the fibers prior to thermal bonding, which is preferably at least about 0.16.

Compl. Specn. 22 pages.

Drgs. 7 sheets.

CLASS : 60-D &amp; F.

157195

Int. Cl. : D 06 c 15/00.

## A METHOD OF FORMING CLOTH INTO THREE DIMENSIONAL SHAPES AND THE ARTICLES PRODUCED BY THAT METHOD.

Applicant : APPAREL FORM COMPANY OF 1718 SOUTH CONCORD, DAVENPORT, IOWA 52808, U.S.A.

Inventors : 1. WEIR SEARS JR. 2. JOHN EDWIN HOSSETTER, 3. WILLIAM HENRY HULSEBUSCH.

Application No. 910/Cal/82 filed August 3, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 25 Claims

A method of forming cloth into a predetermined three-dimensional shape comprising the steps of :

- (a) constructing a preformed shell of unfinished cloth;
- (b) placing said preformed shell over a mold having a size relative to the size of preformed shell sufficient to place the entirety of cloth shell in generally uniform tension;
- (c) treating such as thermally the cloth shell while on said mold so that said shell will retain the predetermined three-dimensional shape after removal from said mold; and
- (d) removing the treated cloth shell from said mold.

Compl. Specn. 32 pages.

Drgs. 2 sheets.

CLASS : 195-D.

157196

Int. Cl. : F 16 t 1/00.

## HYDRAULIC SLIDE VALVE FOR CYLINDERS OF MINE PROPS.

Applicant : BENNES MARREL, OF ZONE INDUSTRIELLE SUD. ANDREZIEUX BOUTHEON, LOIRE, FRANCE.

Inventors : 1. ROGER CHANAL. 2. DANIEL COTTE.

Application No. 941/Cal/82 filed August 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

Hydraulic slide valve for the cylinder of a mine prop and adapted to be mounted in parallel on a hydraulic system, said valve comprising a body 7 having a pressure inlet path 5 and an outlet path 8; and sealing means provided with spring return means adapted to cut-off the flow between these paths during normal operation, and allow for a cross-flow when the pressure exceeds a preset limit in said inlet path 5.

Compl. Specn. 14 pages.

Drgs. 3 sheets.

## OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Council of Scientific & Industrial Research, to the grant of a patent on application No. 156333 made by Carborundum Universal Limited.

(2)

An opposition has been entered by M/s. Godrej Soaps Pvt. Ltd., Bombay to the grant of a Patent on application No. 156365 made by M/s. Hindustan Lever Limited, Bombay.

CORRECTION OF CLERICAL ERRORS  
UNDER SECTION 78(3)

(1)

The claims 20 to 22 and 24 of the Complete Specification in respect of Patent Application No. 152035 (earlier No. 1085/Cal/80) the acceptance of the Complete Specification of which was notified in Part III, Section 2 of the Gazette of India dated 01st October, 1983 has been deleted under Section 78(3) of the Patents Act, 1970 and the Claim 23 renumbered as claim 20.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the under-noted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

(1)

145722 145724 145728 145729 145730 145745 145748

(2)

145798

(3)

145807 145817 145835

(4)

151052 151055 151060 151075 151081 151082 151083 151084  
151085 151086 151088 151089 151090 151094 151096 151098  
151102 151105 151106 151107 151109

(5)

151999 152001 152002 152003 152004 152006 152007 152009  
152010 152011 152014 152016 152017 152020

(6)

152021 152022 152023 152024 152025 152026 152027 152028  
152029 152031 152032 152034 152035 152036 152037 152038  
152039 152040 152042 152044 152046 152047 152049 152050  
152051

(7)

152053 152054 152055 152057 152059 152060 152061 152062  
152063 152064 152065 152066 152067 152068 152069 152070  
152071  
3—437GI/85

## PATENTS SEALED

150276 151018 152097 153610 153611 153777 153977 153870  
154030 154031 154032 154033 154072 154147 154168 154228  
154248 154262 154406 154418 154461 154473 154483 154496  
154504 154562 154571 154573 154575 154635 154797 154833  
154835 154839 155098 155222

## AMENDMENT PROCEEDINGS UNDER SECTION-57

Notice is hereby given that Institut Elektrosvrarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR, of Kiev, Ulitsa Bozhenko, 11, USSR, a national institution organised and existing under the laws of the Union of Soviet Socialist Republic have made an application, under Section 57 of the Patents Act, 1970 for amendment of specification of their Patent Application No. 154258 for method of electroslag welding and flux therefor". The amendments are by way of to correct the errors in the specification. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall left within one month from the date of filing the said notice.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by ORMAT TURBINES (1965) LTD., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 152692 in their name has been allowed.

(2)

The claim made by Mineral Deposits Limited under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 153521 in their name has been allowed.

(3)

The claim made by the Council of Scientific & Industrial Research, Rafi Marg, New Delhi under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 154672 in their name has been allowed.

(4)

The claim made by NEUE HAMBURGER STAHLWERKE GMBH, under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 154905 in their name has been allowed.

(5)

The claim under by J. M. Manufacturing INC., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155463 in their name has been allowed.

(6)

The claim made by ZELLER PLASTIK Koehn, Graebner & Co., under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155625 in their name has been allowed.

## COMMERCIAL WORKING OF THE PATENTED INVENTION

## CHEM ENGG LIST NO XIII

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the Statements filed by them under Section 146(2) of Patents Act, 1970, in respect of calender year 1983, generally on want of requests for licences to work the Patented Invention. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name & Address of Patentees.	Title of the invention.
1	2	3	4	5
1.	148558	14-3-78	SHELL INTERNATIONALE RESEARCH MATACHAPIL B.V. Carel Van Bylandtlaan 30, The Hague The Netherlands.	A process for the hydrogenation of hydrocarbons.
2.	148695	6-3-78	SOCIETE NATIONALE DES POUDRESET EXPLOSIFS of 12 Quai Henri IV cedex 04 75181 Paris France.	Process and apparatus for the continuous nitration of cellulose using a nitrating liquor comprising nitric acid sulphuric acid and water.
3.	148704	9-9-75	UGINE ACIERS of 10 Rue Du General Foy 75361 Paris Cedex 08 France.	A process for the preparation of free machining steel.
4.	148708	28-6-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg New Delhi-1 India.	A process for making palatable preparation of plantago ovala seed husk.
5.	148713	27-7-77	THE LUBRIZOL CORPORATION of P. O. Box 17100 Euclid Station Cleveland Ohio 44117 U.S.A.	Method of making at least One nitrogen containing organic compound from a substituted nitrophenol and a hydrazine compound.
6.	148716	4-5-78	INDUSTRIE CHEMIE THOMA GMBH & Co. Beuthener Strabe 2 D 8264 Waldkraburg F.R.G.	Production of nitroguanidine from nitidine nitrate through 1,1-dinitro-2-sulphuric acid.
7.	148720	21-1-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg. New Delhi-1 India.	A process for the preparation of 4-(2-acetoxy ethyl 4-aza-5-aza 5-andrastan-17-YL acetate methiodide
8.	148721	21-1-78	Do.	A process for the production of 17-a (2-acetoxyethyl) 3-B pyrrolidion-17-aza-D-homoandrost 5-enedimethiodide.
9.	148746	4-2-78	AMERICAN CYANAMID COMPANY At Wayne New Jersey U.S.A.	A method of preparing a wettable powder formulation.
10.	148810	18-12-78	HINDUSTAN LEVER LIMITED of Hindustan Lever House 165-166 Backbay Reclamation Bombay-400 020, Maharashtra India.	A process for the selective hydrogenation of poly-unsaturated fatty acids esters or salts.
11.	148826	21-9-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan-30 The Hague the Netherlands.	Process for preparing liquid hydrocarbons.
12.	148828	3-10-78	Pfizer CORPORATION Calle 15-1-2 Avenida Santa Isabll Colon Republic of Panama.	A process for preparing 4-amino 2-(piperazine-1-yl or homopiperazin-1-yl) quinazoline
13.	148834	28-10-75	CONVAIR INVESTMENTS LIMITED of Sassoon House Nassau The Bahamas.	Water-in-oil emulsion containing finely divided coal.
14.	148853	25-4-80	BANGARU VENTATA RAMA LAKSHMI NARAYANA of 18-5-11 Bondadavari Street Palakel-534 260 West Godavari Distict Andhra Pradesh State, India.	An insect repellent candle and a method for manufacturing such candle
15.	148862	27-3-78	MINNESOTA MINING AND MANUFACTURING COMPANY 3M Center Saint Paul Minnesota 55101 U.S.A.	A process for providing a protective layer to a substrate.

1	2	3	4	5
16.	148865	1-12-77	RHONE-POULENG INDUSTRIES of 22, Avenue Montaigne, 75 Paris SEME France.	Method for preparing composition for the consolidation of mining beds.
17.	148937	9-7-79	THE AHMEDABAD MANUFACTURING CALICO Ptg. CO. LTD Post Box 12, Ahmedabad Gujarat India.	A method of removing residual chlorine efficient Liquids containing calcium hypochlorite.
18.	148960	5-4-79	ENRICO CORVI MORA Via Scalabrinii 49 29100 Piacenza Italy.	A process for preparing lysergol derivatives.
19.	148979	9-9-77	A/S RAUFOSS AMMUNISJONS FABRIK- KER of 2830 Raugoss, Norway.	A process for preparing austenitic wear- resistant steel alloy.
20.	149005	25-4-78	UOP INC at Ten UPO Plaza-Algonquin Mt. Prospect Roads Des Plaines U.S.A.	Catalytic reforming Process using sulfided acidic multimetallic composite.
21.	149059	19-5-79	THE AHMEDABAD MFG. CALICO P1G. CO. LTD. Post Box 12, Ahmedabad, Gujarat State India	A method for obtaining hydrogen gas stream depleted of all or most of the mercury content from the eluent gas of acoustic chlorine plant.
22.	149068	19-4-77	UOP INC. at Ten UOP Plaza-Algonquin & Pt. Prospect Roads Des Plaines Illinois U.S.A.	Improvements in the hydrometallurgical recovery of metal valves.
23.	149077	18-8-78	OUTOKUMP U. OY of Toolonkatu 4 SF-00100 Helsinki 10, Finland.	A process for the recovery of zinc copper and cadmium in the leaching of zinc calcine
24.	149088	24-11-78	SOCIETE LAB. of 241 Route de Gevas 69100 Villeurbanne France.	A process and apparatus for separating impurities contained in liquid or gaseous fluids in suspension by centrifugal treatment and installation comprising plurality of solid apparatus.
25.	149114	19-8-78	AMERICAN HOME PRODUCTS COR- PORATION of 685 Third Avenue New York-100017 U.S.A.	Process for preparing peptides.
26.	149126	21-2-80	THE INDIAN SPACE RESEARCH OR- GANISATION of 'F' Block Cauvery Bhavan -office Road Bangalore 560 009 Karnataka State Govt. of India.	Distinic—An improved process for produc- ing polyols.
27.	149190	30-10-78	JOHNS MANVILLE CORPORATION of Ken-Caryl Ranch Jefferson Country Colorado Canada. Canada.	Glass composition for fiberization.
28.	149216	2-9-78	SHELL OIL COMPANY of One shell Plaza Houston Texas 77001 U.S.A.	A process for producing a catalyst effective for spontaneous decomposition of hydrazines.
29.	149220	5-1-78	ABEX CORPORATION of 530 Fifth Avenue New York 10036 U.S.A.	A method of preparing a new heat resistant alloy.
30.	149249	17-5-79	COUNCIL OF SCIENTIFIC & INDUS- TRIAL RESEARCH Rafi Marg New Delhi-1 India	An improved apparatus for simultaneous determination of carbon hydrogen and halogen or sulphur in organic matter coke and coal steel and like materials.
31.	149251	17-5-79	Do.	Process for the manufacture of non-metallic backing strip for use in metal bonding.
32.	149287	31-10-79	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION of P.O. Polytechnic Ahmedabad-15 Gujarat India.	Improvements in or relating to the synthesis of ascorbic acid (vitamin C) From 24, 312, 6-Di-isopropylidene-2-keto-L-gluconic acid monohydrate.
33.	149315	1-9-78	THE LUBRIZOL CORPORATION of 29400 Lakeland Boulevard Wickliffe Ohio 44092 U.S.A.	Process for preparing a sulfurized Com- position.

1	2	3	4	5
34.	149335	22-6-78	MEIJI SEIKA KAISHA LIMITED of 4-16 Kyobashi 2-chome chuo-ku Tokyo Japan.	Process for preparing starch hydrolyzate.
35.	149336	23-6-78	CONTINENTAL CARBON COMPANY of 2120 Southwest Freeway Houston Texas 77027 U.S.A.	Method and apparatus for the manufacture of carbon block.
36.	149347	20-7-78	CIBA GEIGY AG Klybeckstrasse 141, 4002 Basle Switzerland	A Process for separating SO <sub>2</sub> from a current of gas containing the same and plant for carrying out such process.
37.	149383	3-10-77	DONALD WESTON BOLME 5916, 123 rd Avenue South east Bellevue State of Washington 98006 U.S.A.	A process for the removal of nitrogen oxides from industrial gases by use of oxidising solutions in which nitrates are the oxidants.
38.	149640	13-4-78	PFIZER INC. of 235 East 42nd Street New York State of New York, U.S.A.	Process for the production of mixture of Trans-5-aryl-2, 3, 4, 4a, 5, 9b-Hexahydro- 1H Pyrido [4, 3-b] Indoles.
39.	149465	17-7-78	CHISSO CORPORATION of 6-32 Naka-noshime 3-Chome Kitaku Osaka Japan.	Method of producing 2, 3, 3, -trimethylin dolene.
40.	149470	30-6-78	AKSJESELSKAPET NORCHEM of Haskon VII's gate 2 Oslo 1 Norway	Process for manufacturing concrete of high corrosion resistance.
41.	149472	28-11-82	AMERICAN CYANAMID COMPANY of Waynes New Jersey U.S.A.	A process for the preparation of substituted phenyl acetic acid.
42.	149474	13-4-78	Pfizer Inc. of 230 East. 42n street New York U.S.A.	Process for preparing hexaphdro- carbolines.
43.	149490	21-8-78	ETHICON INC. of Sommer ville New Jersey U.S.A.	A method of preparing absorbable homestatic composition.
44.	149504	26-9-78	E. I. DU PONT DE NEMOURS & COMPANY of Wilmington Delaware U.S.A.	Method of preparing agricultural composi- tions.
45.	149519	30-3-78	PFIZER INC. of 235 East 42nd Street, New York, State of New York, U.S.A.	Process for the preparation of stable dox- ycine compositions.
46.	149520	30-3-78	do.	Process for the preparation of stable chlo- rotria chcline compositions.
47.	149531	13-11-78	GAVIA AG. Vaduz, Switzerland.	A method of preparing a pharmaceutical composition effective in the treatment of migraine.
48.	149540	26-3-79	CPC INTERNATIONAL INC. International Plaza, Englewood cliffs New Jersey 07632, U.S.A.	A process for producing an immobilized glucose isomerase.
49.	149553	6-2-78	THE LUBRIZOL CORPORATION. of 29400 Lakeland, Boulevard, Wickiffe ohio 44992, U.S.A.	Lubricant compositions.
50.	149583	10-7-79	HINDUSTAN LEVER LIMITED, of Hindustan Lever House, 165-166, Backbay Reclamation Bombay-400 020, Maharashtra, India.	A method of extracting n-Paraffins (wax) form mineral oil containing n-Paraffins.
51.	149588	8-3-78	RHEINMETALL GMBH of 4, Dusseldorf, Ulmenstrasse 125, West, Germany.	Surface coating composition for ammu- nition with combustible cartridge case or am- munition without cartridge case.
52.	149603	10-8-79	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH. Raj Marg, New Delhi-1, India.	An improved process for the preparation of reformation. catalyst for use in reforming of hydrocarbons.
53.	149604	18-9-78	TOYAM CHEMICAL COMPANY LIMITED, of 2-5, 3-chome, Nishi-shiJuku, Shinjuku-ku, Tokyo 160, Japan.	A novel process for producing 7-[D(—) a- (4-Ethyl) -2, 3-Dioxo-1-Piprazine Carboxa- mido] -a- (4-Hydroxyohenyl) Ac-tamide 3-5-(1-methyl-1, 2, 3, 4-Tetrazolyl) Thiome- thy1-3 - a:phem-4-carboxylicacid.

1	2	3	4	5
54.	149615	4-9-78	THE LUBRIZOL CORPORATION, of 2940 Lakeland Boulevard, Wickliffe Ohio 44092, U.S.A.	Process for preparing sulfurised composition.
55.	149526	22-3-78	TEXACO DEVELOPMENT CORPORATION, of 135 East 42nd Street, New York- 10017, U.S.A.	Conversion of solid fuels to gaseous fuels liquid hydrocarbon and solubilized fuel.
56.	149546	6-12-78	SHERRITT GORDON MINES LIMITED, at 2800 Commerce Court, West Toronto, Ontario, Canada.	A process for recovering nickel values and cobalt values from a solution.
58.	149658	9-2-78	MEHMET N. OZYAGCILAR, 175, Poplar plains Road, in the City of Toronto Province of Ontario, Canada.	A process for obtaining methane, ethane and other hydrocarbons and alcohols from hydrogen and an oxide of carbon.
59.	149680	1-9-78	LILLY INDUSTRIES LIMITED, Henrietta House Henrietta place, London W. 1, England.	Process of preparing a novel synergistic fungicidal compositions containing maneb.
60.	149693	11-6-79	M/S. CAMPHOR AND ALLIED PRODUCTS LIMITED, Jhanagir Bldg., 133, Mahatma Gandhi Road, in vapour phase with methanol. Bombay-400 023, India.	Process for the preparation of an improved catalyst for the orthomethylation of phenols
61.	149731	6-11-78	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, of P. O. Polytechnic, Ahmedabad-15, Gujarat, India.	Improved process for the synthesis of 2, 314, 6-di- <i>o</i> -isopropylidine, L-sorbate.
62.	149734	26-2-79	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165-166, Backbay Reclamation, Bombay-20, Maharashtra, India.	Process for preparation of synthetic fatty acid soap from paraffins.
63.	149747	4-5-78	PFIZER INC. OF 235 East 42nd Street, New York, State of New York, U.S.A.	Process for the preparation of penicillanic acid 1, 1-dioxide derivatives.
64.	149760	29-3-79	LILLY INDUSTRIES LIMITED, of Henrietta House, Henrietta, Place, London W. 1, England.	A method of preparing synergistic fung- cidal formulations.
65.	149762	6-9-79	HINDUSTAN CIBA-CEIGY LIMITED, of Azrey Road, Goregaon East, Bombay- 400 053, Maharashtra, India.	A process for the preparation of new benzimidazole carbamates.
66.	149783	11-11-75	ANCAN RESEARCH AND DEVELOPMENT LTD. of 1, Place ville Marie, Montreal, Quebec, Canada.	Method of producing improved metal alloy products.
67.	149789	4-17-4-80	Do.	An improved method for preparing a silica containing support material for metal cata- lysts from rice husks.
68.	149792	11-6-79	M/S. CAMPHOR & ALLIED PRODUCT LIMITED, Jhanagir Building, 133 Mahatma Gandhi Road, Bombay 400 023, India.	A process for the preparation of (—)- menth-4 (5)-EN-3-one and the recovery of (+)- <i>p</i> -menth-2-one.
69.	149795	17-4-80	HINDUSTAN LEVER HOUSE, 165-166, Backbay Reclamation, Bombay 20, Maharashtra, India.	A process for hydrogenation of unsaturated organic material such as oils, fats and for fatty acids with silica supported nickel catalyst.
70.	149817	5-4-79	METALLGESELLI SCHAFT AG, 16, Frankfurt AM, Reuterweg, West Germany	Steel making process.
71.	149837	21-7-77	TOTH ALUMINIUM CORPORATION, of 5010 Lroy Johnson Drive, New Orleans 70182, U.S.A.	Improvements in or relating to process of carbochlorinating kaolinitic ore to produce Aluminium chloride.
72.	149841	22-9-78	COMBUSTION ENGINEERING INC. 1011 Prospect Hill Road, Windsor connect- icut, U.S.A.	An apparatus and method for separating low density char particles from higher density inert particles.

1	2	3	4	5
73.	149848	25-5-78	ETHICON INC. Somerville, New Jersey, U.S.A.	A synthetic multifilament suture having poly (alkyl- <i>no</i> oxalate) absorbable coating and method for preparing the same.
74.	149859	7-12-78	EISENWERK-GESEL. CHAFT MAXLMI- LIANSHUTTE MBH, 8458, Sulzbach-Rosenberg, West, Germany.	Method of improvement of the heat-balance in the refining of steel.
75.	149861	5-1-79	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, No. 9-11, 1- chome, Nihonbashi, Horidome- cho, chuo-ku, Tokyo, Japan.	A process for producing a prostaglandin derivatives of a conjugate of prostaglandin steroid hormone.

## COMMERCIAL WORKING OF THE PATENTED INVENTIONS

## CHEM. ENGG. LIST NO. XII.

The following Patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act 1790, in respect of calendar year 1983, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and Address of Patentees	Title of the invention
1	2	3	4	5
1.	147547	19-10-77	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandlaan 30, The Hague, The Netherlands.	Improvements in the process for the production of ethylene oxide.
2.	147552	9-1-78	MINNESOTA MINING AND MANUFACTURING COMPANY 3M Center Saint Paul Minnesota 55101 U.S.A.	A method of preparing a non-irritating composition for the prophylactic treatment of mastitis.
3.	147588	3-1-78	SIEMENS AG. OF Berlin & Munich, West Germany.	A polymer stabiliser composition.
4.	147594	16-12-77	C.E.R.I.L.H. of 26 Rue des Cordeliers 75013, Paris, France.	A process for preparing a light weight concrete material.
5.	147640	11-5-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandlaan 30 the Hague The Netherlands.	Process for preparing liquid hydrocarbons from coal.
6.	147648	15-6-78	SOLVAY & CIE. of 33, Rue de Prince, Albert, B-1050 Brussels, Belgium.	Process for the preparation of aqueous suspensions containing at least 65% by weight of calcium carbonate.
7.	147690	20-3-78	LILLY INDUSTRIES LIMITED, of Henrietta House, Henrietta Place, London, W. 1, England.	A method of preparing a synergistic fungicidal formulation.
8.	147701	21-11-77	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel van Bylandlaan 30, The Hague, The Netherlands.	Process for the preparation of a catalyst composition.
9.	147721	23-3-77	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel van Bylandlaan 30, The Hague The Netherlands.	Process for the production of ethylene oxide.
10.	147738	14-11-77	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Multi-component membranes comprising a porous separation membrane and processor for gas separation using the multi-component membranes.
11.	147742	24-5-78	SOCIETE FRANCAISE D'ELECTRO-METALLURGIE "SOFREM" of Rue General Foy 75361 Paris cedex 08 France	Improvements relating to thermal processes for the production of magnesium.
12.	147764	8-2-78	I.S.F. SPA. Via Leonardo da Vinci 1 20090, Teczzano S/N, Milan, Italy.	Process for the preparation of pyrrolidine derivatives.

1	2	3	4	5
13.	147778	30-3-78	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES-SOCIETE ANNONYME OF 4 rue Theodore-Ribot, 75017, Paris France.	A process for the preparation of [2-isopropyl-4-(2-thienyl 5-emthyl)] phenoxy acetic acid.
14.	147792	20-3-78	LILLY INDUSTRIES LIMITED, of Henrietta House, Henrietta, Place, London W.1. England.	A method of preparing a synergistic fungicidal formulations (A).
15.	147793	20-3-78	Do.	A method of preparing a synergistic fungicidal formulation.
16.	147794	20-3-78	Do.	A method of preparing a synergistic fungicidal formulation.
17.	147796	15-4-78	AMERICAN CYANAMID COMPANY at Wayne, New Jersey, U. S. A.	An adiabatic process for the mononitration of benzene.
18.	147801	6-2-78	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES-Societe Anonyme, of 4 rue Theodore Ribot 75017 Paris, France.	Process for the preparation of isobutyramide derivatives.
19.	147815	15-11-77	AMERICAN HOME PRODUCTS CORPORATION, of 685, Third Avenue New York-10017, U.S.A.	Process for the production of Quinazoline derivatives.
20.	147831	27-2-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carol Van Bylandtlaan 30, Hague, The Netherlands.	Process for the preparation of hydrocarbons.
21.	147845	28-12-77	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Process for making molecular Sieve Zeolites from a paddy hust.
22.	147851	6-1-78	LADISLAV JOSEPH PIRCON of 305 Canterbury lane Oak Brook Illinois 60521, U.S.A.	Process for the production of Fertilizers.
23.	147854	15-4-78	PFIZER INC. of 235 East 42nd New York, State of New York, U.S.A.	Process of preparing dextro rotatory isomer of an assymmetric epio-hydantoin compound
24.	147859	1-6-78	THE ARVIND MILLS LTD, Railway pura Post, Naroda, Ahmedabad-380002.	Process for the preparation of duycuff polymer complex.
25.	147862	6-1-77	UNION CARBIDE CORPORATION at 270 Park avenue, New York, State of New York-10017 U.S.A.	Improvement in or relating to a process for aminating an aliphatic alkane derivative.
26.	147866	26-9-77	OUTOKUMPU OY of Toolonkatu 4, SF-00100 Helsinki 10, Finland.	A hydrometallurgical process for the recovery of valuable metal content from the soluble silicatebearing materials.
27.	147936	14-8-78	THE DIRECTOR CENTRAL COUNCIL FOR RESEARCH IN INDIAN MEDICINE, of C-25 Defence colony, New Delhi-110 024, India.	A process for the preparation of 9, 13 epoxy-6-P hydroxy-8,α---Labdane-15, 19, 20 diolactone.
28.	147937	24-1-79	KONTIKI CHEMICALS AND PHARMACEUTICALS PVT. LTD. of A.K. offi: Building, Bijuhatam Cannanore 670 010, Kerala, India.	Process for the production of cellulose.
29.	147952	15-5-78	HINDUSTAN LEVER LIMITED, 165/165, Barkiy Rechnition, BOMBAY-20, Maharashtra, India.	A process for making particlars, detergent compositions.
30.	147969	27-4-78	UOP INC. at Tsn UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	A method of removing acids from liquid hydrocarbons.
31.	147983	29-6-78	INDIAN EXPLOSIVES LTD. of 34 Chowringhee, Calcutta-700 071.	A process for the preparation of a Stabilized hydroxy alkyl nitrate liquor.
32.	148020	21-7-78	PRODES S.A. of Tribul's Street, San Justo Doven (Barcelona) Spain.	Process for preparing-1-alkylamino-3-(4-carbamoyl methyl phenoxy)-2- propanols.
33.	148034	10-8-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, NEW DELHI-1, India.	Improved process for the production of stainless steel substrates with corrosion resistant black and shining coatings.

1	2	3	4	5
34.	148037	10-4-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan, 30, The Hague, The Netherlands.	Process for the catalytic cracking of crude petroleum fractions.
35.	148043	12-12-78	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION OF P.O. Polytechnic, Ahmedabad-15, Gujarat, India.	A method of and Equipment for Recovery of High Boiling Petroleum Fractions and/or terpenes present in a gaseous mixture issuing as Exhaust from Textile and like Dryers.
36.	148085	14-3-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carel Van Bylandtlaan, 30, The Hague, The Netherlands.	Process for the partial combustion of finely divided solid carbonaceous fuel and reactor for carrying out the same.
37.	148100	12-1-78	UOP INC. at Ten UOP Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for catalytic reforming of a hydrocarbons charge stock in a multiple stage reactor system.
38.	148102	6-2-78	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, of 12 Quai, Henri IV, codex 04, 75161 Paris, France.	Ternary explosive compositions and an explosive charge containing the same.
39.	148104	13-3-78	ZEOCON CORPORATION, of 975 California Avenue, Palo Alto, California 94304, U.S.A.	A process for the preparation of novel esters of amino acids.
40.	148118	22-3-78	CIBA-GEIGY of Klybeckstrasse, 141, 4002 Basel, Switzerland.	Process for bleaching textiles.
41.	148124	13-7-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Process for the synthesis of ( $\pm$ ) Quercachamine a patent hypotensive agent.
42.	148132	13-4-78	Do.	A process for the preparation of new yellow methinequinone-disperse dyes for polyceter fibre.
43.	148140	22-8-78	Do.	A process for the production of austenitic stainless steel free of Nitrogen.
44.	148164	14-9-77	Do.	Process for the preparation of binder material suitable for briquetting of char fines and smokeless domestic fuel briquettes thereby.
45.	148165	11-10-77	UNION CARBIDE CORPORATION, at 270 Park Avenue, New York, State of New York 10017, U.S.A.	A process for the production of low carbon steel.
46.	148198	25-11-78	M/s. CAMPHOR AND ALLIED PRODUCTS LTD., Jhangir Building, 133, Mahatma Gandhi Road, Bombay-400 023, India.	A process for the semi-hydrogenation of acetylenes to olefins.
47.	148202	19-7-78	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	An improved process for desulphurisation of ferrous melts in the iron and steel industry.
48.	148231	12-1-78	UOP INC. at Ten UOP Plaza, Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Hydrogen producing hydro carbon conversion with gravity flowing catalyst articles.
49.	148240	18-4-78	UNILEVER LIMITED, of Unilever House, Blackfriars, London EC1, England.	Water pervious sheet material suitable for manufacture of Tea bags; process for preparing the same and tea bags prepared therefrom.
50.	148256	26-10-78	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	A process for the preparation of vanadium pentoxide from vanadium bearing sludge of alumina industry.
51.	148257	14-10-77	SHOWA DENKO K.K. of 13-2 shiba-Daimon 1, Chom, Minato-ku Tokyo, Japan.	Method for manufacture of Water-blast high carbon ferro-chromium shot.
52.	148255	6-4-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	A process for obtaining hypolipidemic and anti platelet aggregation fraction from guggulresin.
53.	148255	10-4-78	MINNESOTA MINING AND MANUFACTURING COMPANY, 3 M Center, Saint Paul, Minnesota 55101, U.S.A.	A process for preparing 4-alkylthio, 2-trifluoromethyl alkenyl-sulfonilides.

1	1	3	4	5
54.	148173	3-7-76	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Improved process for the production of Zinc phosphate using Zinc carbonate.
55.	148281	27-2-78	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. of Carl Veen Bylandtlaan 30, The Hague, The Netherlands.	Process for the preparation of paraffinic and Olefinic hydrocarbons.
56.	148305	20-10-78	M/s. CAMPHOR AND ALLIED PRODUCTS LIMITED, Jchangir Building, 133, Mahatma Gandhi Road, Bombay-400 023., India.	An improved process for the preparation of geminal acetylenic alcohols.
57.	148321	25-9-78	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Improved process for the preparation of sodium stearyl 1-2-lactylate.
58.	148322	27-7-77	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main, 80, F.R.G.	Improved process for the production of an organic dyestuff containing 1, 2, 3, or 4B-sulfato ethyl sulfonyl group.
59.	148323	27-7-77	Do.	Improved process for the preparation of sulfuric acid semi-ester compounds.
60.	148326	2-2-78	CLUETT, PEABODY & CO. INC. at 433 River Street, Troy, New York, U.S.A.	An improved thermally economic process for the recovery of ammonia from a fabric web treated with liquid ammonia.
61.	148327	8-2-78	I.S.P. SpA, Via Leonardo da Vinci, 1, 20019 Trezzano S/N, Milan, Italy.	Process for the preparation of pyrrolidine derivatives.
62.	148346	7-12-77	DEMAG AKTIENGESELLSCHAFT, of 41-Duisburg 1, Wolfgang-Reuter-Platz, F.R.G.	Method of continuous smelting of ferro-chrome.
63.	148376	12-8-77	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Process for the production of 17-A-methyl 3B pyrrolidino-17 A-aza-D-homo-5-androstan-dimethiodide (Dihydrochanal onium iodide).
64.	148377	12-8-77	Do.	Process for the production of 17-a-methyl, 3-B-pyrrolidino 17 a-aza-D-homoangrost 5-cne dimethiodide.
65.	148539	28-2-79	Do.	A process for the preparation of active silica from paddy husk.
66.	148409	7-4-78	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process for the preparation of abrasion resistant nondusting and water-soluble dye-stuff particles in a fluidized bed.
67.	148581	11-1-79	HINDUSTAN CIBA-GEIGY LIMITED, of Aarey Road, Goregaon (East), Bombay-400 063, Maharashtra, India.	Process for the preparation of 5-Aralkyl 2, 4-diamino pyrimidines.
68.	148623	17-1-78	METALL GESELLSCHAFT AG. 16, Frankfurt AM, Rauterweg, West Germany.	Waelz process of volatilizing zinc and lead from iron oxide containing.
69.	148625	27-2-78	HOECHST AKTIENGESELLSCHAFT, of 6230 Frankfurt/Main 80, F.R.G.	Process for the production of Water insoluble azo dyestuffs on the fibre.
70.	148647	21-6-78	PFIZER CORPORATION of Calle 15-1/2, Avenida Santo Isidro colon, Republic of Panama.	A process for preparing acaricidal tetrahydro-5-triazinethions.
71.	148653	4-5-78	THE GOODYEAR TYRE & RUBBER COMPANY, of 1144, East Market, Street Akron, Ohio, U.S.A.	Process of making an adhesive.
72.	148661	21-6-78	SOCIETE DE CONSEILS DE RECEHR-CHES ET D'APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.) of 264, rue du Faubourg St. Honore 75008, Paris, France.	Process for the preparation of new pyrimidine derivative.
73.	148664	26-6-78	Exxon RESEARCH AND ENGINEERING COMPANY, Florham Park, New Jersey, U.S.A.	Lubricating oil composition and process for preparing the same.
74.	148693	12-1-78	UOP INC. Ten UOP Plaza, Algonquin and mt. Prospect Roads, Des plaines, U.S.A.	Hydrogen-producing hydrocarbon conversion with gravity flowing catalyst particles.
75.	148674	23-4-79	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi, India.	An electrochemical process for the preparation of 2-amino-m-vylene from 2 nitro m-xylene.

## RENEWAL FEES PAID

129880 129961 129963 136577 136754 137264 137287 137844  
 137902 138001 138025 138060 138195 138226 138297 138596  
 139044 13968 140350 140569 140964 140999 141347 141367  
 141441 141456 141515 141605 141753 141816 141952 142188  
 142576 142603 142648 143017 143181 143416 143417 143444  
 143603 143658 143659 143923 144138 144274 144385 144632  
 144690 144719 144828 144829 144881 145081 145028 145102  
 145168 145305 145314 145337 145385 145446 145465 145632  
 145670 145982 145987 146053 146063 146119 146147 146168  
 146196 146210 146264 146296 146312 146392 146408 146501  
 146532 146730 146773 146794 146912 146972 146973 146996  
 146997 147022 147051 147052 147057 147058 147067 147071  
 147165 147192 147202 147274 147275 147316 147317 147324  
 147386 147429 147493 147572 147578 147622 147668 147681  
 147891 147913 148026 148080 148182 148260 148326 148331  
 148332 148347 148354 148427 148445 148473 148526 148538  
 148540 148541 148964 149139 149220 149396 149423 149424  
 149683 150157 150194 150195 150281 150298 150330 150339  
 150342 150343 150347 150351 150408 150412 150414 150419  
 150475 15047 150499 150616 150676 150743 150864 150947  
 150996 151067 151070 151071 151718 151823 151900 151961  
 152023 152042 152063 152067 152076 152080 152087 152088  
 152092 152102 152117 152141 152153 152156 152177 152188  
 152190 152191 152196 152197 152202 152223 152225 152283  
 152292 152365 152473 152703 152936 152937 152976 152993  
 153302 153304 153343 153356 153358 153359 153365 153370  
 153391 153399 153402 153422 153424 153425 153430 153432  
 153465 153544 153543 153549 153554 153556 153557 153558  
 153559 153562 153585 153590 153593 153613 153624 153625  
 153626 153627 153628 153629 153631 153632 153633 153662  
 153679 163680 163681 153682 153684 153685 153688 153714  
 153733 153752 153753 153757 153758 153788 153789 153795  
 153796 153816 153818 153821 153826 153856 154034 154061  
 154066 154067 154082 154084 154140 154289 154746 154785  
 154787

## RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 152248 granted to Semac Private Limited for an invention relating to "a self lubricating razor".

The patent ceased on the 12th February, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 21st December, 1985.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 on or before the 1st April 1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

CANCELLATION PROCEEDINGS  
(SECTION 51A)

## (1)

An application made by Blow Plast Ltd. for cancellation of the registration of Design No. 154717 in Class 3 in the name of Universal Luggage Manufacturing Co Pvt. Ltd., has been filed.

## (2)

An application made by Blow Plast Ltd. for cancellation of the registration of Design No. 155079 in Class 3 in the name of Universal Luggage Manufacturing Co. Pvt. Ltd., has been filed.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1941.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 155683. Khaitan Electricals Limited, of Plot No. 14, Sector-6, Faridabad-121006 Haryana, India, an Indian Company, "Cooler Pump". 16th May, 1985.

Class. 1. No. 155685. Khaitan Electricals Limited, of Plot No. 14, Sector-6, Faridabad-121006 Haryana, India, an Indian Company, "Industrial Fan". 16th May, 1985.

Class. 1. No. 155711. Electronic Industries (INDIA) Private Limited, of 6, Buroshutola Main Road, Calcutta-700 038, West Bengal, India, an Indian Company, "Inverter". 27th May, 1985.

Class. 3. No. 155660. Ramawater Saroogi Indian National, of Maker Chamber V, 1412 Nariman Point, Bombay-400 021, Maharashtra State, India, "Cartridge". 13th May, 1985.

Class. 3. No. 155693. Metal Box P.l.c., a British Company of Queens Horse, Forbury Road, Reading, Berkshire, RG1, 3JH, England, "u Bottle". Reciprocity date is 24th November, 1984 (U.K.).

Class. 3. No. 155695. Rotpunkt Dr. Anso Zimmermann, of 6434 Niederaula, West Germany, "an Insulating Jug". Reciprocity date is 30th January, 1985 (U.K.).

Class. 3. No. 155889. Eagle Flask Private Limited (an Indian Company under the Companies Act) at Eagle Estate, Talegaon-410 507, District Pune, State of Maharashtra, India, "Flask". 24th July, 1985.

Class. 3. No. 155904. Cello Plastic Industrial Works, Vakil Industrial Estate, Walochat Road, Goregaon East, Bombay-400 063, Maharashtra, India, an Indian Partnership Firm, "Soup Cuse". 30th July, 1985.

Class. 3. No. 155938. Industrie FACE STANDARD Spa, a public Liability Company organised under the laws of Italy of Via Luigi Bodio 33-39, Milano 20158, Italy, "a Telephone Subset". 14th August, 1985.

Class. 3. No. 155939. Industrie FACE STANDARD Spa, a public Liability Company organised under the laws of Italy of Via Luigi Bodio 33-39, Milano 20158, Italy, "a Telephone Subset". 14th August, 1985.

Class. 3. No. 155940. Industrie FACE STANDARD Spa, a public Liability Company organised under the laws of Italy of Via Luigi Bodio 33-39, Milano 20158, Italy, "a Telephone Subset". 14th August, 1985.

Class. 3. No. 155941. Industrie FACE STANDARD Spa, a public Liability Company organised under the laws of Italy of Via Luigi Bodio 33-39, Milano 20158, Italy, "a Telephone Subset". 14th August, 1985.

Class. 3. No. 155996. M/s. Membrane India whose address is plot No. 347, Udyog Vihar, Phase-II, Dunda-hera, Gurgaon-122016 Haryana a Indian National of Membrane House, C5/5, Safdarjung Development Area, New Delhi-100 016 India a Proprietary firm, "Fuel Filter". 18th August, 1985.

Class. 3. No. 156045. Marvel Electronics Private Limited, A-88/1, Naraina Industrial Area, Phase I, New Delhi-110 028 an Indian Private Limited Company of the above address, "a Cabinet of Cassette Recorder". 16th September, 1985.

Class. 3. No. 156046. Marvel Electronics Private Limited, A-88/1, Naraina Industrial Area, Phase I, New Delhi-110 028 an Indian Private Limited Company of the above address. "a Cabinet of Cassette Recorder". 16th September, 1985.

Class. 3. No. 156048. Mohamedali Sherli Virjee, an Indian National, 104 Gulistan, 10th North South Road, Andheri (West), City of Bombay-400 049, State of Maharashtra, India. "Feeding Bottle". 16th September, 1985.

Class. 3. No. 156049. Mohamedali Sherli Virjee, an Indian National, 104 Gulistan, 10th North South Road, Andheri (West), City of Bombay-400 049, State of Maharashtra, India. "Container". 16th September, 1985.

Class. 4. No. 155728. JG Glass Limited, of Pimpri, Pune-411 018, Maharashtra, India, an Indian Company. "Bottle". 29th May, 1985.

Class. 4. No. 155729. JG Glass Limited, of Pimpri Pune-411 018, Maharashtra, India, an Indian Company. "Bottle". 29th May, 1985.

Extn. of Copyright for the Second period of five years.

Nos. 151164, 154750. .... Class-1.

No. 155704. .... Class-3.

Extn. of Copyright for the Third period of five years.

Nos. 151164, 154750. .... Class-1.

No. 155704. .... Class-3.

Name Index of Applicants for Patents for the month of March, 1985 (Nos. 151/Cal/85 to 242/Cal/85, 56/Bom/85 to 79/Bom/85, 165/Mas/85 to 250/Mas/85 and 170/Del/85 to 279/Del/85).

Name      Appln.      No.

—A—

A. Salvi & Co. S.p.A.—218/Mas/85.

ANR Energy Conversion Company.—236/Cal/85.

Abbobacker, A. P.—243/Mas/85.

Agarwal G. D.—274/Del/85.

Air Preheater Company, The—184/Cal/85.

Airlec Vehicles Ltd.—247/Mas/85.

Aktiebolaget Bofors.—216/Del/85.

Aktiebolaget Gustavsberg.—179/Cal/85.

Aktiebolaget Hassle—223/Del/85.

Altide Corporation—185/Mas/85.

Allied Corporation—196/Mas/85, 197/Mas/85, 215/Mas/85.

Astra-Tech Aktiebolag—196/Del/85.

Atmanand, M.A.—212/Mas/85.

—B—

BASF Aktiengesellschaft—174/Mas/85, 181/Mas/85, 201/Mas/85.

BJCC Public Ltd., Co.—192/Del/85, 193/Del/85, 261/Del/85.

BP Chemicals Ltd.—194/Del/85.

Babcock-Hitachi Kabushiki Kaisha—180/Mas/85.

Babcock & Wilcox Company, The—151/Cal/85, 156/Cal/85, 168/Cal/85, 177/Cal/85, 196/Cal/85, 206/Cal/85, 241/Cal/85, 142/Cal/85.

Babcock & Wilcox Company, The—171/Del/85, 238/Del/85, 263/Del/85, 266/Del/85.

Bankamerica Corporation—204/Cal/84.

Barthakur, S.—223/Cal/85.

Batni, P. R.—238/Cal/85.

Bayer Aktiengesellschaft—240/Del/85.

Name      Appln.      No.

—B—C and.

Beloit Corporation—163/Cal/85, 164/Cal/85.

Bertin & Cie—264/Del/85.

Bharat Heavy Electricals Limited—215/Del/85.

Bhat K.—176/Del/85, 177/Del/85.

Bhattacharya, P.D.—233/Cal/85.

Brita Wasserfilter GMBH—191/Cal/85.

British Uralite Plc—225/Mas/85.

Brown, A.J.—221/Mas/85.

Burlington Industries, Inc.—265/Del/85.

But, A.S.—201/Cal/85.

—C—

CGEE Alsthorn—276/Del/85.

Centraal Diergeneskundig Instituut—234/Cal/85.

Centralny Ośrodek Badawczo-Rozwojowy Przemysłu Betonów "Cobel"—186/Cal/85.

Centre Stephanois De Recherches Mecaniques Et Frottement—213/Cal/85, 227/Del/85.

Cetus Corporation—220/Cal/85.

Chakraborty, R.—174/Cal/85.

Chander, S.—259/Del/85.

Chawla, S. K.—232/Del/85.

Chevron Research Company—208/Mas/85.

Chowdary, Dr. K. P. R.—168/Mas/85.

Ciba Geigy AG.—191/Del/85.

Combustion Engineering, Inc.—190/Cal/85.

Companion Valenciana De Cementos Portland S.A.—258/Del/85.

Computer Identification systems Inc.—277/Cal/85.

Concast Service Union AG.—239/Cal/85.

Council of Scientific and Industrial Research—172/Del/85, 173/Del/85, 188/Del/85, 189/Del/85, 190/Del/85, 223/Del/85, 224/Del/85, 245/Del/85, 246/Del/85, 247/Del/85, 248/Del/85, 249/Del/85, 250/Del/85, 251/Del/85, 252/Del/85, 267/Del/85, 268/Del/85, 271/Del/85, 272/Del/85, 273/Del/85, 277/Del/85, 279/Del/85.

Cubic Western Data—240/Mas/85.

—D—

D. Swarovski & Co.—175/Cal/85.

Das, N. K. (Dr.)—208/Cal/85.

Dengensha Manufacturing Company Limited—205/Mas/85.

Deshmukh, V.V.—74/Bom/85.

Dewan, S.K.—220/Del/85, 221/Del/85.

Dharwadkar, M.S.—65/Bom/85.

Dholaria, K. R.—57/Mom/85.

Diamantopoulos, P.J.—175/Mas/85.

Director All India Institute of Medical Science, The—243/Del/85.

Dorr Oliver Incorporated—213/Del/85, 214/Del/85.

Dunlop India Limited—188/Cal/85.

Name	Appln.	No.
------	--------	-----

Name	Appln.	No.
------	--------	-----

## —E—

Elektronikus Merokeszolekok Gyara—228/Cal/85.  
 Elemor, I.W.—216/Cal/85.  
 Energy Conversion Devices Inc.—208/Del/85, 256/Del/85, 257/Del/85.  
 Euroceltique—194/Cal/85.  
 Exxon Research & Engineering Co.—211/Del/85, 212/Del/85, 270/Del/85.

## —F—

Fellows Corporation—249/Mas/85, 250/Mas/85.  
 Fiprofa Holding—176/Cal/85.  
 Firma Tirlux—Lenze GmbH & Co. Kg.—187/Mas/85.  
 Fives-Cail Babcock—203/Mas/85.  
 Food Specialities Ltd.—178/Del/85.  
 Fuller Company—253/Del/85.

## —G—

GKN Technology Ltd.—219/Del/85.  
 Gal, P.—169/Mas/85, 170/Mas/85.  
 General Food Corporation—197/Del/85, 198/Del/85, 199/Del/85, 200/Del/85, 217/Del/85, 226/Del/85.  
 George Fischer Aktiengesellschaft—212/Cal/85.  
 Gokhale, V.G.—72/Bom/85.  
 Good year Tire & Rubber Co., The—229/Del/85.  
 Gore, W. L. & Associates, Inc.—246/Mas/85.  
 Grebennikov, L. P.—201/Cal/85.  
 Gunter Heinrich Born—235/Cal/85.

## —H—

Halcon SD Group, Inc. The—195/Del/85.  
 Halder, B.G. (Dr.)—169/Cal/85.  
 Hein, Lehmann AG.—181/Cal/85.  
 Hindustan Lever Ltd.—60/Bom/85, 61/Bom/85.  
 Hitachi Ltd.—232/Cal/85.  
 Hobson Process Limited—202/Mas/85.  
 Hoechst Aktiengesellschaft—161/Cal/85, 195/Cal/85, 230/Cal/85.  
 Honda Giken Kogyo Kabushiki Kaisha—222/Mas/85.  
 Hultmark, G.—190/Mas/85.  
 Hydro Quebec—262/Del/85.

## —I—

I C I Australia Ltd.—203/Del/85.  
 Imperial Chemical Industries PLC—180/Del/85, 181/Del/85, 182/Del/85, 201/Del/85.  
 Indian Explosives Limited—218/Cal/85, 219/Cal/85.  
 Indo Auto Industries—260/Del/85.  
 Industrial Insulations Inc.—192/Mas/85.  
 Instituto De Investigacion Y Desarrollo Quimico-Biologico S.A.—191/Mas/85.

## —J—

James Howden & Co. Ltd.—186/Del/85, 187/Del/85.  
 Joy Engineering Works Ltd., The—202/Del/85.  
 Johnson Matthey Public Limited Company—202/Cal/85.  
 Joshi, R. I.—67/Bom/85.  
 Jung, B.—192/Cal/85.

## —K—

KRW Energy Systems Inc.—193/Cal/85.  
 Kapoor, K.—180/Cal/85.  
 Karve, H. K.—69/Bom/85.  
 Kaur, S.—175/Del/85.  
 Kaushika, Dr. D. N.—222/Del/85.  
 Kebelschlepp GmbH—79/Bom/85.  
 Kemira OY—241/Mas/85.  
 Kennecott Corporation—209/Del/85.  
 Kett Electric Laboratory—221/Cal/85.  
 Keystone International Inc.—183/Cal/85.  
 Kievsky Politekhnichesky Institut Imeni—236/Del/85.  
 Kishore, K.—237/Del/85.  
 Knorr-Bremse GMBH—200/Cal/85.  
 Koshun Kaihatsu Kabushiki Kaisha—165/Cal/85.  
 Krahe, H—189/Cal/85.  
 Kyorin Seiyaku Kabushiki Kaisha—211/Mas/85.

## —L—

L & C STEINMULLER GmbH—217/Mas/85.  
 La Telemecanique Electrique—183/Del/85.  
 Lanxide Corporation—197/Cal/85.  
 Licentia Patent Verwaltungs-GmbH—205/Cal/85.  
 Linde, Aktiengesellschaft—184/Mas/85, 194/Mas/85, 204/Mas/85.  
 Lipha, Lyonnaise Industrielle Pharmaceutique—275/Del/85.  
 Lonza Limited—176/Mas/85, 177/Mas/85.  
 Lord Corporation—228/Del/85.  
 Lucas Electrical Electronics and systems Ltd.—219/Mas/85.  
 Lucas Industries Public Limited Company—205/Del/85.  
 Lucidyne, Inc.—198/Mas/85.

## —M—

Maiti, P.S.—224/Cal/85.  
 Mallik, K.N.—233/Del/85, 234/Del/85.  
 Maunestmann Aktiengesellschaft—271/Mas/85.  
 Maschinenfabrik Rieter AG—179/Mas/85.  
 Massey-Ferguson Services N.V.—225/Cal/85.  
 Mathew, C.—200/Mas/85.  
 Matsushita Electric Industrial Co., Ltd.—240/Cal/85.  
 Mauser—Wecke GMBH—189/Mas/85.  
 Medical College of Ohio—173/Cal/85.

Name	Appn.	No.
------	-------	-----

## —M—

Mediolanum Pharmaceutical—152/Cal/85.  
 Mehta, V.C.—167/Cal/85.  
 Metal Box Limited—182/Mas/85.  
 Metallgesellschaft Aktiengesellschaft—198/Cal/85, 199/Cal/85.  
 MIATRF, K.M.—77/Bom/85.  
 Mhatre M.K.—77/Bom/85.  
 Michel Henri Roland Laroche—230/Del/85.  
 Microwave Applications Groups—226/Cal/85.  
 Mitsubishi Denki Kabushiki Kaisha—220/Mas/85, 71/Bom/85.  
 Mitsui Toatsu Chemicals Incorporated—162/Cal/85.  
 Mobil Oil Corporation—248/Mas/85.  
 Mohandas, R.—166/Mas/85.  
 Morgan Construction Company—204/Del/85.

## —N—

NL Industries, Inc.—157/Cal/85.  
 N. V. Philips Gloeilampenfabrieken—187/Cal/85.  
 Nabisco Brand Inc.—171/Cal/85.  
 Nabisco Brands Inc.—231/Cal/85.  
 Nambier, V. P.—78/Bom/85.  
 Narayanan, G.K.I.—78/Bom/85.  
 Nargas, A.S.—231/Del/85.  
 Neste Oy—178/Cal/85.  
 Nippon Light Metal Co. Ltd.—195/Mas/85.  
 Nissan Chemical Industries Ltd.—237/Cal/85.  
 None, V.R.—56/Bom/85.  
 Nova Scand Utveckling Aktiebolag—215/Cal/85.

## —O—

Ovonic Battery Company—236/Cal/85.  
 Ownes—Illinois, Inc.—171/Mas/85.

## —P—

Pandya, M. G.—58/Bom/85.  
 Parker, L. W.—170/Del/85.  
 Parle Products Pvt. Ltd.—73/Bom/85.  
 Patel, B. S.—63/Bom/85.  
 Patalshi, V.—154/Cal/85, 155/Cal/85, 160/Cal/85.  
 Perfluktiv Consult AG.—229/Mas/85, 230/Mas/85, 231/Mas/85, 232/Mas/85.  
 Pfizer Inc.—244/Del/85.  
 Pfizer Inc.—254/Del/85.  
 Pilkington Brothers P.L.C.—239/Mas/85.  
 Pirovano, C.—185/Del/85.  
 Politis, A.G.—175/Mas/85.  
 Prayon Development S.A.—170/Del/85.  
 President Engineering Corp.—184/Del/85.

Name	Appn.	No.
------	-------	-----

## —R—

Raju, M.V.N.S.—224/Mas/85.  
 Rao, E.G.—242/Mas/85.  
 Rao, G. N.—168/Mas/85.  
 Raychem Corporation—238/Mas/85.  
 Rbara Corporation—172/Mas/85.  
 Reynolds Metals Company—198/Cal/85, 199/Cal/85.  
 Rolf Henning Wilhelm Steinbock—182/Cal/85.  
 Roy William Buckland—211/Cal/85.

## —S—

SKF Steel Engineering AB—209/Mas/82, 210/Mas/85.  
 Salubre Investments Limited—216/Mas/85.  
 Sanghani, S. K. Dr.—59/Bom/85.  
 Sanyal, A. K.—233/Cal/85.  
 Shah, V. C.—66/Bom/86.  
 Sharma, D. B.—62/Bom/85.  
 Shell Internationale Research Maatschappij B.V.—188/Mas/85.  
 Shell Internationale Research Maatschappij B.V.—233/Mas/85, 234/Mas/85.  
 Shell Internationale Research Maatschappij B.V.—210/Del/85, 239/Del/85.  
 Shetty, S.A.—70/Bom/85.  
 Shri Amriteshwar Pharma-Research Foundation—75/Bom/85.  
 Shri Ram Institute for Industrial Research—241/Del/85, 242/Del/85.  
 Sico Incorporated—166/Cal/85.  
 Sieke, H.—167/Mas/85.  
 Sieke, I.—167/Mas/85.  
 Siemens Aktiengesellschaft—207/Cal/85.  
 Singh, H.—207/Del/85.  
 Singh, P.—207/Del/85.  
 Singh, R. N.—214/Cal/85.  
 Singh, S. (Swaran)—174/Cal/85, 175/Del/85.  
 Singh, S. (Satnam)—175/Del/85.  
 Sinha, N. B. (Dr.)—209/Cal/85, 210/Cal/85.  
 Sinha, P.—76, Bom/85.  
 Sircar, M.—153/Cal/85.  
 Smith Meter Inc.—245/Mas/85.  
 Societe Francaise Des Produits Pour Catalyse Pro-Catalyse Chez Institut Francais Du Petrole—226/Mas/85.  
 Stamicarbon B.V.—213/Mas/85, 214/Mas/85.  
 Standard Oil Company The—255/Del/85.  
 Standard Telephones and Cables Public Limited Company—218/Del/85.  
 Stanfer Chemicals Company—165/Mas/85, 186/Mas/85.  
 Stone & Webster Engineering Corporation—170/Cal/85.

## —T—

Telefonaktiebolaget LM Ericsson—206/Del/85.  
 Thadani, S.C.—68/Bom/85.  
 Thomas, I.—206/Mas/85.  
 Thun, A. H.—223/Mas/85.  
 Tobu Enterprises Pvt. Ltd.—235/Del/85.  
 Trustees of Columbia University, The—173/Cal/85.  
 Trutzschler GmbH & Co. KG. 158/Cal/85, 159/Cal/85.  
 Trylon Associates Ltd.—172/Cal/85.

Name	Appln.	No.
------	--------	-----

—U—

USM Corporation—269/Del/85.

Uhde Gmbh—199/Mas/85.

Unie Van Kunstmetaal Fabrieken B.V.—178/Mas/85, 193/Mas/85.

Union Carbide Corporation—183/Mas/85, 235/Mas/85, 236/Mas/85, 237/Mas/85, 244/Mas/85, 217/Del/85.

Unisearch Limited—228/Mas/85.

University of Medicine and Dentistry—227/Mas/85.

Name	Appln.	No.
------	--------	-----

—V—

VAN WIERST, J.C.—173/Mas/85.

Voest Alpine Aktiengesellschaft—185/Cal/85.

Volta Power Belting Ltd.—64/Bom/85.

—W—

Westinghouse Electric Corporation—203/Cal/85, 229/Cal/85.

—Z—

Zimmern, B.—222/Cal/85.

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks